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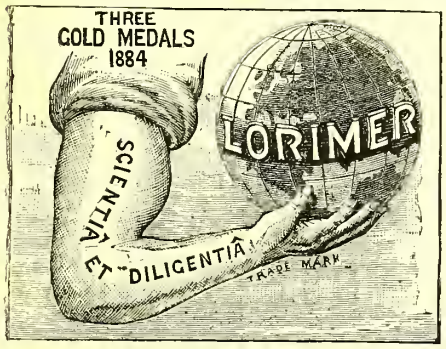

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AUGUST 1, 1888.

CONTENTS OF No. 8, Vol. 3.

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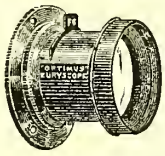

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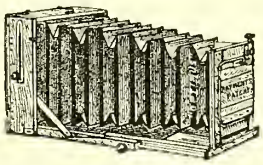

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Price includes 3 Double Dark Slides.

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AWARDED GOLD MEDAL.

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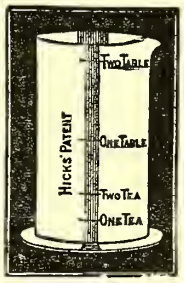

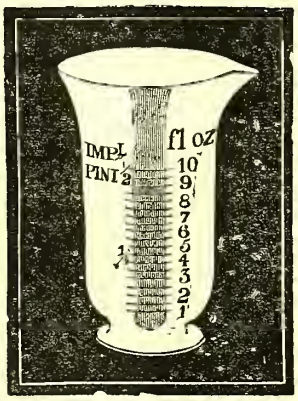

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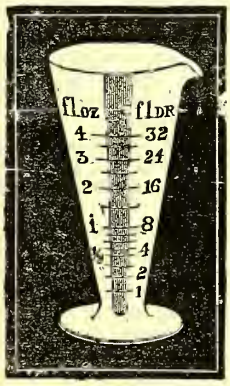

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For Domestic, Chemists', and Photographers' Use.

The advantage of these Measures over those of Plain Glass consists in their being made of Pure White Enamel Tubing, with the divisions and figures fired on in indelible black. They can therefore be read with the greatest ease in any light.

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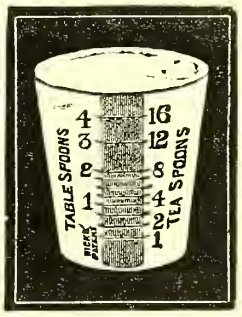

To be obtained of all Wholesale Houses and Chemists. Price Lists on application

EXCHANGE COLUMN.

This section of "The Chemist and Druggist" must be closed for press by Thursday noon of each week. Remittances payable to EDWARD HALSE.

TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of ½d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word, his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word, as *e.g.*, £1 10*s.* 6*d.*

DEPOSIT OF MONEY.—In order to ensure safety we offer the following system:—The purchaser of anything advertised in the Exchange Column may remit the amount to us, accompanied by a commission of 6*d.* if the amount is £3 or under; and 1*s.* if over that sum. We acknowledge receipt of deposit to both parties, and hold the money until we are satisfied that either the goods are returned to their original owner or the purchase is completed.

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NOTICE.—No Advertisement is inserted in this section for less than Sixpence.

FOR DISPOSAL.

Drugs and Chemicals.

Eight lbs. ol. menthæ pip. ang. (finest), 23*s.* lb. J. Best, Chemist, Holbeach.

Formulæ.

Reliable recipes, 6*d.* each; full set of 130 neatly copied in book, 7*s.* 6*d.*; send for list. "Chemist," Edwards, Wye, Kent.

How to make money.—Send 1*s.* 6*d.* for any three of the following valuable recipes, easily made, full directions. "Digestive Syrup," vastly superior to Seigel's, more pleasant taking, real medicinal worth, half profit; "Tio Specific," cures instantly when all other remedies fail, acts like magic, without danger; "Embrocatio Alb.," creamy white inseparable emulsion (like Elliman's), equally good for man or beast; "Hop Tonic," better every way than American, grand liver tonic, brilliant, permanent, pleasant, under 1*s.* pint; "Glycerine Cream," elegant sea-side requisite, cooling and refreshing, preferred to Beetham's, pays splendidly; "Herbalade," concentrated extract like Mason's 6*d.* bottles, costing half, make 5 gallons of brilliant, sparkling, appetising, thirst-allaying, and comforting drink, once tasted always wanted. T. Brooks, Chemist, Louth, Lincs. My recipes have cost over 200*l.* List free.

Literature.

Chemist and Druggist, 1832-83-84-85-86-87, unbound; *Diary*, 1884-85-86-87; what offers? 28/5.

Bentley's "Systematic Botany," cost 7*s.* 6*d.*; Heaton's "Experimental Chemistry," cost 5*s.*; both new; what offers? W. Saunders, 19 High Street, Strood, Kent.

Smith's "Student's Latin Grammar," Gerrard's "Materia Medica and Pharmacy," 1886; Wills's "Materia Medica and Elements of Pharmacy," 1881; Henfrey's "Botany," 1870; Fowne's "Chemistry," 1863; what offers? (cash or exchange). W. Francis, 25 Pratt Street, West Bromwich.

Squire's "Companion," 12th edition, 5*s.*; ditto, old edition, 1*s.* 6*d.*; "Pharmacopœia," 1867, 2*s.* 6*d.*; Pereira's "Materia Medica," published 25*s.*, 12*s.* 6*d.*, nearly new; Beasley's "Pocket Formulary," old edition, 1*s.* 6*d.*; Wills's "Materia Medica," 3rd edition, illustrated, 5*s.*; Wills's "Pharmacy," 2*s.* 6*d.*; Thoroughgood's "Materia Medica," 4*s.*; Chambers' "English Dictionary," 2*s.*; Macaulay's "English History," 4 vols., 7*s.* 6*d.* Metcalf, Fakenham.

Shop Fittings.

Surplus new stock of stoppered shop rounds:—Narrow mouths, per dozen: 4-oz., 4*s.* 6*d.*, 6-oz., 4*s.* 10*d*, 8-oz., 5*s.* 3*d.*, 10-oz., 5*s.* 6*d.*, 20-oz., 6*s.* 6*d*, 40 oz., 8*s.* 9*d.*, 3-pint, 12*s.* Wide mouths, per dozen:—4 oz., 4*s.* 10*d.*, 6-oz., 5*s.* 3*d.*, 8-oz., 5*s.* 9*d.*, 10-oz., 6*s.*, 20 oz., 7*s.* 3*d.*, 40-oz., 9*s.* 6*d*, 3-pint, 13*s.* Blue or lilac ointment jars, per dozen:—4-oz, 3*s.* 9*d.*, 8-oz., 5*s.* 6*d.*, 1-lb., 8*s.*, 2 lb., 16*s.*, 3-lb., 24*s.*, 4-lb, 32*s.* New desk and sheet glass case 2 ft. 3 in. long, 2 ft. wide, 2 ft. high, shelves, 2 drawers and pigeon holes, 2*l.* 18*s.* 6*d.* W. Hawke & Son, Shop Fitters, Wild Court, Great Wild Street, London.

Miscellaneous.

Spectacles, 50 per cent. below makers' price; list sent. 26/22.

Few good pictures, framed. Particulars, Jones, Enfield House, Uffculme, Devon.

Self-inking printing press, type, borders, &c., for sale cheap. F. S. A., Commerce House, Wye.

Bracher's patent Desideratum mixer, quite new; price 25*s.* Cochrane, 21 Craven Terrace, Bayswater.

Genuine cucumber pomade, 2*s.* lb., post free; recipe for glycerine and cucumber, inseparable, 1*s.* De Carle, St. Augustine's, Norwich.

About 5 cwt. nitrate of soda; no reasonable offer refused; can be had cheap; Stedman's powders, 6*s.* doz., post free. Griffith, Chemist, Canterbury.

Royal Meteor front steering tricycle; maker's price 22*l.*; perfect order; 7*l.*; or will take microscope. B., 5 Park Row, Blackheath, London.

Surplus stock.—47 gross Este's turned wood boxes, 1 drachm; 6 doz. 6*d.* Sharratt's carbolic powder, offers wanted; 200 lbs. Ecora's ess. lemon, 3*s.* lb. Newham & Pickard, Shude Lane, Sheffield.

Microscope slides.—Medical, botanical, brilliant, opaque, gorgeous polarising, &c., from 5*s.* dozen; list; second-hand microscope by Crouch, cheap; also accessories, cabinets, and mounting requisites. Henry Ebbage, 344 Caledonian Road, London.

Ten 40-oz. stoppered bottles (wrappers unopened) Lorrimer's Easton's syrup, about 25 lbs., at 1*s.* per lb.; bottles 6*d.* each; three 7-lb. tins (2 unopened) aniline black, bought for ink-making; manufacturers; Leonhardt, Mannheim; about 20 lbs, 3*s.* 6*d.* per lb.; sample, 2*d.* stamps. Bowness, Chemist, Workington.

Jeffrey's respirator, 9*s.* for 2*s.* 6*d.*; Maw's ethereon respirator, 8*s.* for 2*s.* 6*d.*; micro-ethereon ditto, 5*s.* for 2*s.*; 4 boxes Habana cigars, 15*s.* each, cost 20*s.*, sample 3 stamps; 6 doz. Bradbury's sheep dip, 30*s.*, little soiled; 2 doz. Bradbury's fly powder, 12*s.*; 245 lbs. Tomlinson's dip, in 5, 10, 20 lb. tins, 3*l.*; 3 specie jars, 20*s.* each, cost 35*s.*; 2 ditto, 60*s.* each, cost 90*s.*; 2 carboys (3 galls.), 9*s.* each. Metcalf, Fakenham.

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A set of dental instruments, silver-plated, in good condition. 21/12.

A few cases of Murdock's liquid food, 4*s.* 6*d.* size. Address, Mr. Murdock, Post Office, Chester.

Attfield's "Chemistry," last edition; cheap for cash. Kent, Monmouth Villa, East Finchley.

Steel's "Equine Anatomy"; Fleming's Translation of Chauveau's "Anatomy of Animals." 23/22.

Small counter case, homœopathic medicines; state contents and lowest price. Judge, Long Eaton.

Dispensing scales, in exchange for hand-painted fountain, 32 in. high, or lowest cash price. Webster, West Bromwich.

Beasley's "Receipt Book," Squire's "Companion," Squire's "London Hospitals"; recent editions; good condition and cheap. Furnival & Eardley, Hanley.

Wenham lamp, or Argand burners, small size; plate-glass show shelves; and 80 oz. wide-mouth stoppered bottles. Walker, Little Brighton, Birkenhead.

Quain's "Dictionary of Medicine," Tanner's "Index of Diseases," Southall's or Wills's "Materia Medica Cabinet," Squire's "Companion" and Squire's "Hospital Pharmacopœia"; latest editions; state lowest prices. Cox, 125 Fortess Road, N.W.

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The "LUNG PROTECTOR" continues to be made only from the same Fine Soft Wool which has always been used since its introduction, 22 years ago.

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Lung Protector.
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Lung Protector.
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ORIGINAL PATTERN, Nine sizes ...	10/-	14/-	18/-	26/-	34/-	42/-	52/-	60/-	70/-	per doz.
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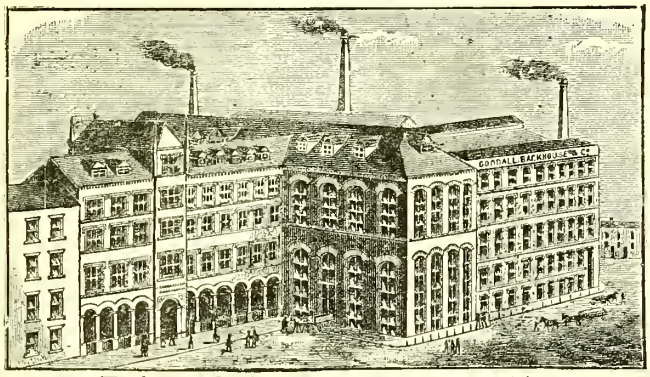

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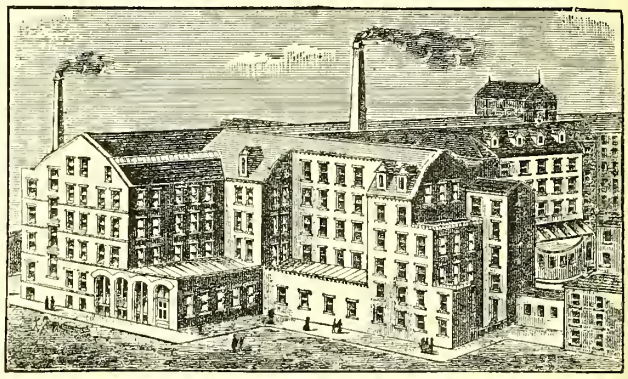
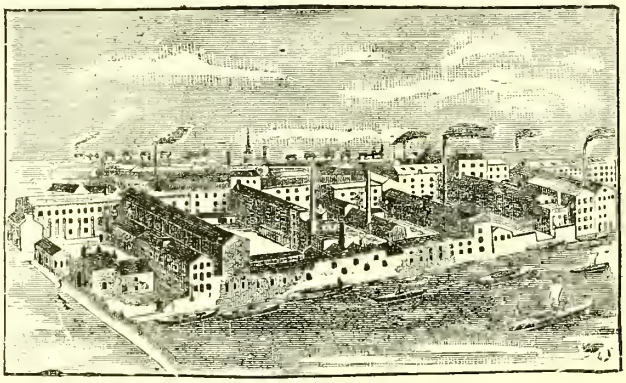


Warehouse and Offices, White Horse Street—South and East View.



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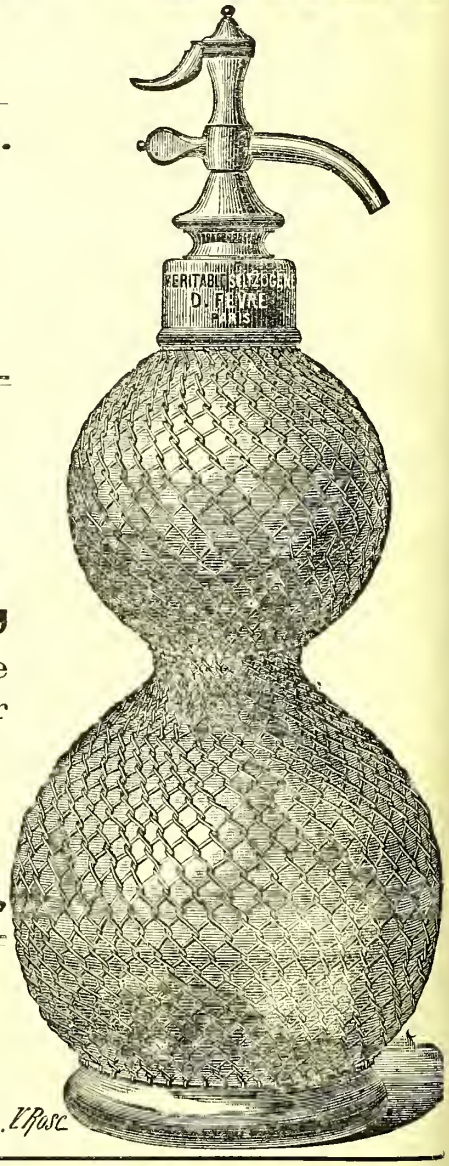

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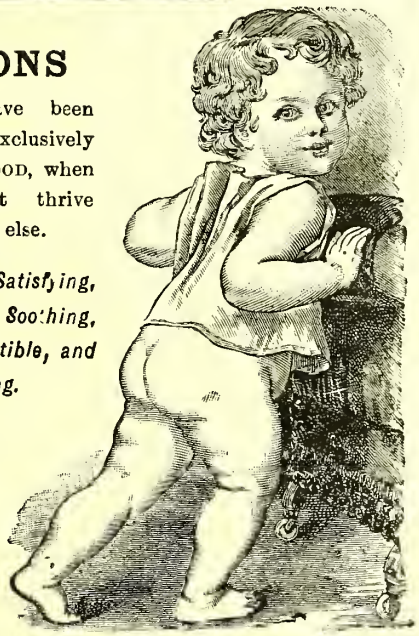


Ridge's Food sets the babies on their legs, and makes them push along.

TYRER'S SAUCES

GOOD VALUE

AND

"BOROUGH" KETCHUP

THE GIANT 1d. BOTTLE OF SAUCE.

LARGEST IN THE TRADE.
In Half-Gross Boxes, at 6/6 per Gross.*

"BOROUGH" KETCHUP, WORCESTER, HARVEY, YORKSHIRE, OR READING SAUCE.

1d. Sample Bottles, dozen parcels	..	..	per gross	5/	extra quality 6/
" " ½ gross boxes	..	..	"	5/6	" 6/6
1d. Giant Bottles, dozen parcels	..	..	"	6/	" 8/
" " ½ gross boxes	..	..	"	6/6*	" 8/
¼-Bottles (flat or round), reputed ½-pint		..	"	16/	" 24/
½-Bottles (flat or round), reputed pint		..	"	26/	" 32/
⅙-pint Imperial Round Stoppered Bottles		..	"	30/	" 36/
1-pint Imperial " "		..	"	50/	" 60/
12½-gallon Casks (casks free)..	..	..	each	20/	" 32/

ROYAL CAFÉ SAUCE.

In 8 oz. square-stoppered bottles, 48/ per gross.
A rich, fruity Sauce of fine flavour, and worth especial attention, as being the most saleable in the market.

Samples of any kind Sent Free of all Cost by

PETER TYRER,
The "Borough" Ketchup and Sauce Maker,
70 LONG LANE, BOROUGH, LONDON, S.E

SCOTCH AGENCY: 113 WEST NILE STREET, GLASGOW.
Also Sold by W. & C. PANTIN, Upper Thames Street, LONDON, E.C.
BURGOYNE & CO., 16 Coleman Street, London, E.C
JOSTRAVERS & SONS, 119 Cannon Street, London, E.C.

PRIZE MEDAL, International Health Exhibition, 1884. AWARD OF MERIT, International Medical and Sanitary Exhibition, London, 1881.

DIABETES.

VAN ABBOTT'S GLUTEN BREAD.

AND ALL SUITABLE FOODS FOR DIABETIC PATIENTS.

VAN ABBOTT'S ELIXIR of SACCHARIN and SACCHARIN PERLES for SWEETENING TEA, COFFEE, &c., are perfectly harmless to DIABETICS and all to whom Sugar is injurious.

G. VAN ABBOTT & SON are Manufacturing GLUTEN CAKES, BISCUITS, &c., SWEETENED with SACCHARIN for DIABETIC PATIENTS.

Full particulars on application. PAMPHLET, with DIABETIC and other DIETARY TABLES, COOKING RECEIPTS, Price List, &c., Post Free.

G. VAN ABBOTT & SON,

DIABETIC, INVALID, & INFANT DIETETIC DEPOT, 6 Duke St. Mansions, Grosvenor Sq., London, W.
TELEGRAPHIC ADDRESS—"GLUTENS LONDON."

VALUABLE & INTERESTING TO EVERYBODY.

COMPRESSED HOPS.

Best Hops compressed into small parcels of one pound and half-pounds, and sent out in cases containing 30 lbs. each. These Hops are specially selected and compressed for keeping purposes, and will retain their aromatic strength for a considerable time.

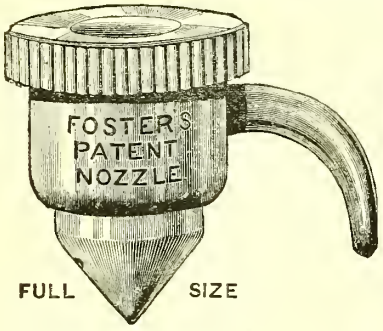
They are introduced to the Public to enable them to make their own BITTERS, YEAST, HOME BREWING and numerous other purposes. Full particulars given on each packet.

P.S.—Chemists will naturally see the great advantage in making their own Bitters from the Pure Hop itself.

Specially Packed by **A. WILKINSON & SONS, 27 Derby Lane, Old Swan, LIVERPOOL.**

SAMPLES AND QUOTATIONS ON APPLICATION.

Sole Agents for Chemists—EVANS, SONS & CO., Liverpool; EVANS, LESCHER & WEBB, London; EVANS, SONS & MASON, Lim., Montreal.



FIRE!! FIRE!!

FOSTER'S PATENT NOZZLE

For Converting Syphon Bottles immediately into

FIRE EXTINCTEURS.

In Fancy Boxes containing 1 doz. Nozzles, 18/ each. Trade Discount, 33⅓ per cent.
Handsome Showcard and Handbills given gratuitously.
Every room in every house should have a Syphon Bottle fitted with a Nozzle, ready for immediate use. It forms the Simplest and most Reliable Fire Extincteur ever invented.

Price 1s. 6d. each.

BARNETT & FOSTER, Manufacturers,
"Niagara Works," 26T Eagle Wharf Road, LONDON, N.

THE PATENT THERMO SAFEGUARD FEEDING BOTTLES.

A Thermometer Embedded in the Glass.
EDUCTION IN RETAIL PRICES TO 1/-, 1/6, and 2/6 each.
Wholesale of London Houses and
POCOCK, KEEVIL & CO.
72 Wandsworth Road, S.W.

SPONGE IMPORTERS.

M. PETERSON & CO.
(Established 1870),
75 ST. ANNE STREET, LIVERPOOL.
FOR HOME, FOREIGN, & COLONIAL MARKETS.

DISPENSING BOTTLES & PHIALS

The following are our greatly Reduced Prices:—

CLEAR BLUE TINTED.

3 and 4 oz.	6/6 per gross.	12 oz.	11/6 per gross
6 and 8 oz.	7/6 „	16 oz.	15/6 „

WHITE MOULDED PHIALS.
LONG OR SQUAT SERIES.

½ oz.	3/0 per gross.	1½ oz.	4/3 per gross
1 oz.	3/6 „	2 oz.	4/9 „

Prompt attention to country orders. Packages 1/ each, allowed for if returned. Sample bottle sent free on application.

I. ISAACS & CO.
GLASS BOTTLE MANUFACTURERS.
25 Francis St., Tottenham Court Road, London, W.C.
Established upwards of 70 years. *Bankers, London and Westminster*

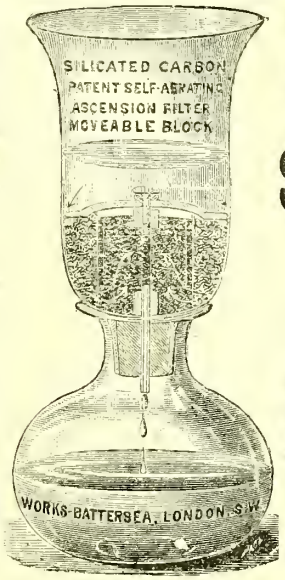
FLATNESS OF TASTE

SO COMMON IN FILTERED WATER,

OBVIATED

BY USING

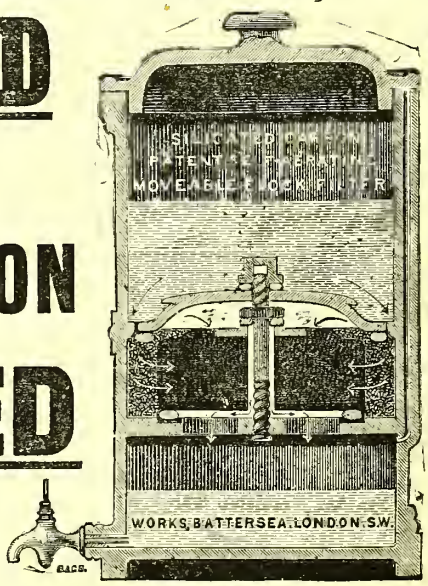
SILICATED CARBON FILTERS AERATED



Glass Table Filters.

By means of which the water is Aerated and Filtered simultaneously, rendering it, even after boiling, Pure, Bright, and Palatable.

The Silicated Carbon Block can be Instantly Removed, leaving the whole of the Filter Open for Inspection and Cleansing.



Domestic Filters.

LIBERAL DISCOUNT TO THE TRADE.

LIBERAL DISCOUNT TO THE TRADE.

FOR PRICES AND FULL PARTICULARS, WRITE TO THE

SILICATED CARBON FILTER CO., BATTERSEA, LONDON, S.W.

EVERY CHEMIST & DRUGGIST

Should write for samples and terms (post free) of the Delicious Spring Blossom Ceylon Tea. This valuable and profitable agency is worth securing. Handsomely and specially packed for Chemists' sale in air-tight canisters.

In ¼-lb., ½-lb., and 1-lb. Canisters, to sell Retail at 2/, 2/6, and 3/ per lb. Set of three ¼-lb samples post free for 2/ in stamps.

CAVE, JOHNSON & CO., WHOLESALE TEA AND COFFEE DEALERS. **8 LIME ST., LONDON, E.C.**

THIRTY-SIX PRIZE MEDALS AWARDED TO THE FIRM.

GOLD MEDALS
EDINBURGH AND LIVERPOOL EXHIBITIONS

FRY'S
Pure Concentrated
COCOA

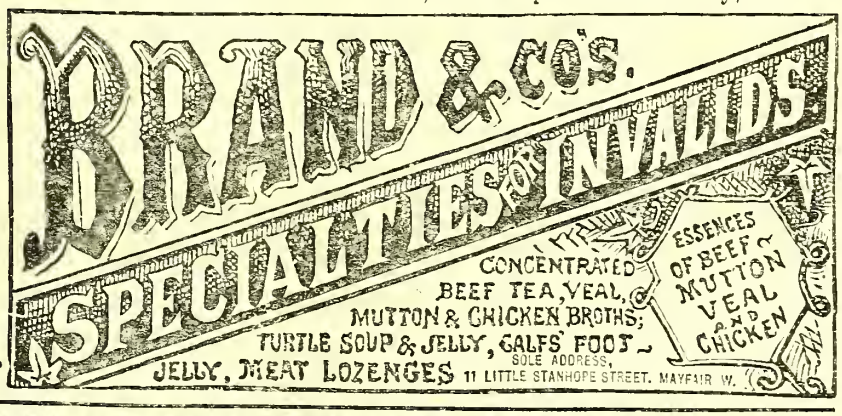
Prepared by a new and special scientific process securing extreme solubility, and developing the finest flavour of the cocoa.

TRADE MARK.

J. S. FRY & SONS, BRISTOL, LONDON, & SYDNEY, N.S.W.

To H.R.H. The Prince of Wales, The Empress of Germany, &c.

BRAND & CO.'S
PEPTONES
OF
BEEF, MUTTON, VEAL,
AND
CHICKEN.



LIQUID PEPTONATE OF IRON (STERILIZED)
The best remedy for Anæmia and in all cases where the stomach cannot bear iron in the ordinary forms. A wonderful stimulant to nutrition.

COLOURLESS PEPTONE OF MEAT (STERILIZED)
The only rational Peptone, free from microbes. Antibacteridian sterilization insures its complete preservation.

SAMPLES FREE TO MEDICAL MEN AND CHEMISTS ON APPLICATION.

Sole Makers: **DENAEYER'S PEPTONES COMPANY, LIMITED, 118 Bishopsgate St. Within, LONDON, E.C.**

"RAMORNIE." LIEBIG'S Extract of Meat.

As supplied to the War Office.

1 lb. Jars	per lb.	6/2	per doz.	74/0	2-oz. Jars	per lb.	7/0	per doz.	10/6
½ lb. Jars	"	6/4	"	38/0	1-oz. Jars	"	7/8	"	5/9
¼ lb. Jars	"	6/7	"	19/9	½-oz. Jars	"	8/0	"	3/0

Write for Detailed Price List to the Australian Meat Co., 9 and 11 Fenchurch Avenue, E.C. 6 lbs. Carriage Free.

HAY'S HOP ALE ESSENCE

REGISTERED TRADE MARK.

FOR THE MANUFACTURE OF THE FINEST AERATED HOP ALE.

Is made from the Choicest Hops Grown.

HAY'S HOP ALE ESSENCE

"Supplies an excellent stomachic, appetising, and agreeable summer drink."
Brewers' Journal.

"A **beautiful essence**, has a fine **Hop Aroma**, and is quite a pharmaceutical triumph."
The Chemist and Druggist.

"For this Essence a brilliant future may be anticipated. It possesses characteristics very seldom to be met with."
Mineral Water Trade Review.

"For flavour, strength, and real solubility, this Essence leaves nothing to be desired."
British & Colonial Druggist.

TRADE MARK

REGISTERED.

HAY'S HOP ALE

"This is an excellent Non-Alcoholic beverage."
The Lancet.

"Evolves a delicious aroma of **Hops.**"
Medical Press.

"It is a **Fine Bitter Beer**, pouring out with a **rich creamy head.**"
British & Colonial Druggist.

"Possesses the Aromatic bouquet and pleasant flavour of the **genuine Hop.**"
Mineral Water Trade Review

"Is a nearer approach to Bass or Allsopp's Ale than any non-intoxicants preceding it."
Eastern Morning News.

Trade Price, 8s. 6d. per lb.; 12 lbs. and upwards, 8s.

Quantity required, two fluid oz. to each gallon of Syrup, making 106 10-oz. Bottles.

HAY'S HOP ALE ESSENCE

FOR THE MANUFACTURE OF THE FINEST AERATED HOP ALE.

"Since Mr. HAY, the well-known Manufacturing Chemist, of Hull, surprised the Pharmaceutical world, some ten years since, by the production of hat, until then, had been thought an impossibility, viz., a perfectly soluble and transparent **ESSENCE OF GINGER**, nothing he has done has attracted so much attention in this direction as his latest **ESSENCE OF HOPS**, which, like his **other Essences**, is a production unique in itself. The **HOP ALE** made from this Essence evolves a **DELICIOUS AROMA OF HOPS**, and supplies that much longed-for desideratum of abstainers, '*A Glass of Non-Alcoholic Beer.*' We have always felt that teetotallers laboured under a disadvantage that ought not to exist, in having no really decent beverage *in the place of Wine and Beer.* By this Pharmaceutical triumph of Mr. HAY, this difficulty has been overcome, and it affords us much pleasure to commend this truly **Temperance Drink** to the notice of abstainers and non alcoholic abstainers alike."
—*Medical Press.*

HAY'S HOP ALE ESSENCE [1]

"I certainly remarkable for the purity and reality of its results. Made from the choicest hops, and treated in a manner of which Mr. HAY appears to possess the monopoly, this **HOP ALE ESSENCE** supplies an excellent stomachic, and an agreeable stimulating **Summer Drink.** The **HOP ALE** produced by this **ESSENCE** is of a most refreshing and invigorating character, with all the appetising flavour and delicate aroma of its more intoxicating prototype, which it approximates more closely than any similar preparation we have yet tasted. It may be advantageously taken up as a speciality for which a large consumption may safely be predicted."—*Brewers' Journal.*

W. HAY, Manufacturing Chemist, Beverley Road, HULL, ENGLAND.

Telephone Number, 1852. Telegraphic Address—CHEMICUS LONDON.

ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS.

ADVERTISEMENTS APPEARING IN THIS ISSUE OF "THE CHEMIST AND DRUGGIST."

NOTE.—The Folios shown in this Index are those at the FOOT of the Page, and NOT at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.

Foot of page

ALLEN & HANBURYS
Wholesale and Export Druggists COVER
APOLLINARIS CO. ... *Apollinaris*, COVER
Apollinaris Water...TEXT 438
ARMBRECHT, NELSON & CO. ... *Coca Wine* 34
ASSISTANTS WANTED AND WANTING SITUATIONS ... Coloured Supplement
ATKINSON & BARKER ... *Infants' Preservative* 45
AUSTRALIAN MEAT CO. ... *Extract of Meat* 21

BAILEY & SON ... *Trusses* 28
BAILEY, C. J., & CO. *India Rubber Toilet Brush* 48
BAKER, P. C. ... Supplement
BANNER, E. R. ... *East India Mustard Seeds* 42
BARKER, W., & SON ... *Engravers*...TEXT 438
BARNETT & FOSTER ... *Nozzle* 20
BATES, F. W. ... *Frizzetta* 47
BAUMGARTNER, J. F., & CO. *La Brilliantine* 51
BAYLEY, C. ... *Dictionary* 7
BEEDZLER, J., & CO. ... *Annett's Cough Balsam* 45
BENNETT & CO. ... *Glass Bottles*...TEXT 438
BETTS & CO. *Metallic Capsules and Sprinklers* 50
BIGG, T. ... *Veterinary and Sheep Dips* 53
BIGGLESTON, E. R. ... *J. R. Hall's Wood Violet* 8
BOEHM, F. ... *Sozoiodol* 42
BRACHER & CO. ... *Pill Finisher* 51
BRAND & CO. ... *Beef Tea, Soups, &c.* 21
BRATBY & HINCHLIFFE
Aerated Water Machinery 16
BROOKS, PEEL & CO. ... *Collapsible Tube, &c.* 46
BURROUGHS, WELLCOME & CO.
Facts and Figures, 31, *Tincture Press* 32
BUSINESSES FOR DISPOSAL ... Coloured Sup.
CADBURY BROS. ... *Cocoa Essence*...COVER
CASTLE CO., THE ... *Menthol Cones* 47
CAVE, JOHNSON & CO.
Spring Blossom Ceylon Tea 21
CHEMICAL CARBON CO., THE
Carbon Cones and Cases 35
CLARKE, S. ... *Nursery Food Lamp* 59
CLARK, S., & CO. ... *Gas Heating Stoves* 54
CLARK, W. ... *Veterinary* 55
COLE, W. ... *Insect Powder* 52
COLEMAN & CO.
Report of Liebig's Meat and Malt Wine 8
COLTHURST & HARDING ... *Oils, Paints* 51
CORNER, R. ... *Cattle Medicine* 57
CRESSWELL BROS. ... *Sponges* 26
CRITCHLEY, T. ... *Starch Gloss* 56

DAHL'S DYSPEPSIA CAKES ... Coloured Sup.
DAVIS, J., & CO. (LIM.) ... *Toilet Almanacks* 6
DAY & SONS ... *Veterinary* 53
DAY, SON & HEWITT ... *Veterinary* 52
DELACRE, C. ... Coloured Supplement
DENAEYERS' PEPTONE CO. *Peptone of Meat* 21
DENOUAL, J. ... *Medicinal Capsules* 39
DINNEFORD & CO. ... *Fluid Magnesia* 42
DOWNIE B. I. P. CO. ... *Eucalyptus Globulus* 40
DOWNING, J. S. ... *Toilet Paper* 50
DU BOYER, MARIE ... *Perfumery* 46
DUNN & CO. ... *Chemicals* 36
DURANT, T., & CO. ... *Capsules* 39
DURRANT, GEORGE ... *Orange Wine* 55
DUNCAN, FLOCKHART & CO. ... *Chloroform*
Cascara Sagrada, Capsules 39

EASTBOURNE HOMŒOPATHIC CONVALESCENT HOME & NURSING INSTITUTE 5
EASTERN COUNTIES AND BRITISH FARMERS' CONDENSED MILK SUPPLY CO. ... 18
EDINBURGH PHARMACEUTICAL CLASSES 5
ELLIMAN, SONS & CO. ... *Embrocation*...TEXT 438
EMPLOYERS' LIABILITY ASSURANCE CORPORATION ... 18
EWEN & SONS ... *Lard, Perfumery, &c.* 8
EXCHANGE COLUMN ... 10

Foot of page

FEVRE, T. ... *Aerated Water Machinery* 16
FLETCHER & CO. ... *Concentrated Liquors* TEXT 438
FOUGERA, E., & CO. ... *Druggists* 57
FOULKES, W. J. ... *Cement* 49
FORD, SHAPLAND & CO.
Almanacks, Book Almanacks 6
FRITZ & CO. ... *Salt Regis* ... TEXT 438
FRY & SONS ... *Cocoa* 21

GIBSON, R., & SONS
Lozenges Compressed Tablets, Jujubes, &c. 18
GOODALL, BACKHOUSE & CO.
Household Specialities 12, 13
GOWER, J. ... Coloured Supplement
GREAT TOWER STREET TEA CO. ... *Tea* 15
GREEFF & CO. ... *Sulfonal Riedel* 36
GRINDLEY & CO. ... *Petroleum Jelly* 59

HAGUE, J. J. ... *Clinical Thermometers* 56
HALF-PRICE POSTAGE CLOSED LETTER CO. (LIM.) ... 5
HALL'S WOOD VIOLET PERFUME (Successor, E. R. Biggleston) ... 8
HARDY PATENT PICK CO. ... 54
HARGREAVES, M. K. ... *Books* 7
HARKER, STAGG & MORGAN
Export Druggists 45
HAY, W. ... *Soluble Essences* 22
HEARON, SQUIRE & FRANCIS *Preparations* 32
HEILGERS, F. W., & CO. *Quinine, Chemical, &c.* 37
HICKS, J. & J. ... *Measures* 9
HOCKIN, WILSON & CO. ... *List of Specialities* 60
HOP BITTERS CO. (LIM.) ... *Caution* 44
HORN & SON ... *Patents and Trade Marks* 56
HORNBY, A. ... *Kamphorkalk* 49
IDRIS & CO. ... *Pure Crushed Linseed* 56
INGRAM & SON ... *Enemas* 58
ISAACS & CO. ... *Bottles* 20
JAKSON, J., & CO. ... *Oil of Peppermint* 41
JOHNSEN & JORGENSEN ... *Butter Color* 40
JONES & CO. ... *Methylated Spirits* 50
KAY BROS. (LIM.) *Almanack, Kay's Essence of Linseed and Coaguline* ... 6
KEARLEY & TONGE ... *Mitre Tea* 14
KERFOOT, T. ... *Confectionery* 8
KEROSENE CO., THE *Empty Petroleum Barrels* 51
KUHN, B. ... *Papain Finkler (Salol)* 38
LIVERPOOL SCHOOL OF PHARMACY ... 5
LOFTHOUSE & SALTMER ... *Druggists* 38
LOHMANN, DR. PAUL
Ferrum Redactum by Hydrogen 7
LOISETTE, PROF. ... 5
LONDON HOMŒOPATHIC HOSPITAL AND MEDICAL SCHOOL ... 5
LORIMER & CO. ... 7
LYNCH & CO. ... *Chest Protectors*...COVER
MACK, H. ... *Pasta Mack* 47
MACNAIR, J. & D., & CO. ... *Gums, Shellac, &c.* 55
MANCHESTER SCHOOL OF PHARMACY ... 5
MARTINDALE, W. ... *Nitro-Glycerine Tablets* 38
MAW, S., SON & THOMPSON
Price Current, 4; *Chest Protectors* 27
MAY & BAKER ... *Sulfonal Bayer*...COVER
MAY, ROBERTS & CO. ... *Catalogue* 7
McKESSON & ROBBINS ... *Ovoid Capsule Pills* 29
McNAUGHTAN, F. J.
Agency...Coloured Supplement
MORRIS & CALLARD ... *Chemicals* 36
MORTON, H. ... *Powders* 40
MOSS, J., & CO. ... *Solid Liquid Extracts* 3
MUMFORD, G. S. ... *Starch Powder*...TEXT 428
MUNDAY, J. ... *Injection Day* 39
MURRAY, J. ... *Kirke's Physiology* 7
NASCIO, AVELINE & CO. ... *Essential Oils* 41
NESTLE, H. ... *Food for Infants* 18
NEW CARBOLIC SANITARY CO.
Healthitas Disinfectants 56
NORTH MEDICINE CO. ... *Drugs* 43

Foot of page

ORRIDGE & CO. ... *Transfer Agents*... Coloured Sup.
OSCAR SUTTON & CO. ... *OS Tooth Block* 47

PATERSON'S MANUFACTURING CO. LIM.)
Cod-liver Oil with Malt Extract 43
PATTISON, G. ... *Lung Protector* 10
PEARS' SOAP ... 33
PERKEN, SON & RAYMENT *Cameras, Lenses* 9
PETERSON, M., & CO. ... *Sponges* 20
PHILLIPS, GEO., & CO. ... *Pure Spirits of Wine* 51
POCOCK, KEEVIL & CO.
Patent Thermo Feeding Bottle 20
POLLARD, A. W. ... *Rubber Stamps* 6
POLYTECHNIC INSTITUTE ... 5
PRITCHETT, W. E. ... *Books* 7
PUTZ & HENDRICHS ... *Acetic Acid* 40

QUIBELL BROS. ... *Sheep Dip* 57
QUELCH, HENRY C. ... *Face Powder* 47
QUILLIAM & CO. ... *Bellacoma* 56

RAIMES & CO. ... *Breast Exhausters* 57
RAIT, GEO. L., F.C.S. ... *Analytical* 58
RATTI, S., & CO. ... *Menphrosine* 39
RENNER, DR. ... *Vaccine Lymph* 28
RICHFORD, E. M. ... *Indiarubber Type* 58
RIDGES, DR., FOOD ... 19
ROBBINS, J. & CO. ... *Methylene* 43
ROBERTS & CO. ... *Specialities* 41
ROBERTSON, J., & CO. ... *Capsules* 56
ROBINSON, B. ... *Wines* 48
ROWLAND, L. ... *Chloride of Gold* 56
ROYAL COLLEGE OF SCIENCE ... 5

SANITARY WOOD WOOL CO.
Hartman's Wood Wool Diapers 48
SANITAS, THE, CO. (LIM.) ... TEXT 438
SCHUTZE & CO.
Chest Protectors, Mustard Leaves 28
SELF-OPENING TIN BOX CO. ... 54
SELLERS, J. ... *Carmine Pur.* 56
SHIRLEY, A. W. ... *Menthol* 46
SILICATED CARBON FILTER CO. ... *Filters* 26
TEXT 438
SMITH, T. & H., & CO. ... *Drugs* 38
SMITH, W. F. ... *Fowler's Pills* 48
SPRATTS' PATENT ... *Dog Medicines* 53
STEPHEN SMITH & CO. ... *S.V.R.* 51
STERN, G. & G. ... *Pumiline* 29
SUTTON, F., & CO. *Norfolk Veterinary Remedies* 53
SWANN, H. H.
Dr. Churchill's Syr. of Hypophosph. 30
SWISS MILK CO. ... *Milk in Powder* 18
SYMES & CO. ... *Drugs* 40

TAYLOR, T. & F. J. ... *Aerated Waters* 18
THOMPSON & CAPPER *Homœopathic Medicines* 45
THOMPSON, M. F. ... *Plasters* 48
TOWNSEND, J. ... *Almanacks* 6
TRAVADO, S., & CO. ... *Perfumery* 46
TROMSDORFF, H. ... *Sozoiodol* 42
TULLY, J. ... Coloured Supplement
TYRER, P. ... *Sauces and Boro' Ketchup* 19

VACCINE ASSOCIATION ... *Pure Lymph* 28
VAN ABBOTT & SON ... *Gluten Bread* 19
VOGELER, THE CHARLES A., CO.
St. Jacobs Oil 30
WALTON, J. ... *Roup Pills* 52
WARNER, W. R., & CO. ... *Pills* 25
WHIFFEN, T. ... *Caffine* 36
WHITE, A., & SONS ... *Drugs and Chemicals* 40
WILLOWS, FRANCIS & BUTLER ... *Drugs* 43
WILLIS & WOOTTON (Westminster College) ... 15
WILKINSON & SONS ... *Hops* 19
WILSON, S. ... *Fly Papers* 52, 57
WILSON, W. ... *Toothache Pellets* 56
WYLEYS & CO. ... *Wholesale Druggists, &c.*
Gelatine Oval Coated Pills 29

CLASSIFIED LIST OF ALL ADVERTISERS

Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear above are published in one of the other issues of this month.

AERATED AND MINERALS
Apollinaris (Hunyadi, Friedrichshall, and Apollinaris)
Barnett and Foster
Chemists' Aerated Water Association
Durrant, Geo., & Co.
Ellis (Ruthin)
Hay, W.
Hassall and Co. (Citric Acid Phospho)
Hunyadi Janos
Idris and Co.
Ingram and Royle
Jewsbury and Brown
Johannis Mineral Water Co. Lim.)
Kinmond & Co.
Mills and Co. (Bourne)
Schacht, W., & Co. (Kronenquelle)
Taylor, T. and F. J. [See GINGER ALE.]

DITTO PLANT
[See SYPHONS and ESSENCES.]
Barnett and Foster
Bratby and Hinchliffe
Bush, W. J., and Co. (Foam Producer, &c.)
Favarger, H.
Gueret Frères
Tyler, Hayward, and Co.

ACETIC ACID
Dunn and Co.
Morris and Callard (Salts)
Putz and Hendrichs

AGENCIES ABROD
Australian Drug Co.
Berkeley, Taylor & Co.
Campbell, N. S., and Co.
Cocking (Japan)
Evans, Sons and Mason (Lim.) (Canada)
Felton (Melbourne)
Fougera (New York)
Kempthorne (New Zealand)
Macnaughton, F. J.
Peake, Allen and Co.
Roberts (Paris, &c.)
Rocke (Melbourne)
Sharland & Co. (Anckland N.Z.)
Soul, W. H., and Co.

ALKALOIDS
Howards and Sons (Cinchona)
Smith, T. and H.

ALMANACKS
Davis, J., and Co.
Ford, Shapland and Co.
Kay Bros. (Lim.)
Townsend, J.

ANALYSIS
Rait G. L., F.C.S.

AMMONIA
May and Baker
White, A., and Sons

APPARATUS
Bracher & Co. (Automatic distilling)
Clarke, S. (Food Warmer)
May, Roberts (Water-bath)
Orme (Scientific)
Perken, Son and Rayment (Scientific)
Tapp and Co.
Rothermel Paul (Vinegar)
Tippetts (Weighing Machine)

BANDAGES
Bailey, W. H., and Son
Bole Hall Mill Co.
Robinson and Sons
Schutze, F., & Co.

BATH GLOVES
Maw, Son and Thompson
Seabury and Johnson

BOXES
Austin and Co. (Cardboard)
Irvin and Sellers
Metz, Paul (Willow)
Noakes, B., & Co.
Self-Opening Tin Box Co.

BICARB. SODA
Gaskell, Deacon and Co.
Howards & Sons
May and Baker

BEESWAX & HONEY
Bowdlear and Co.

BISMUTH, PREP.
Hearon, Squire and Francis
Hewlett and Sons
Howards and Sons
May and Baker
Symes and Co.
White, Alfred and Sons

BOTANIC BEER
Newball and Mason

BOOKS
Baily, J.
Bayley, C. (Dictionary)
Hargreaves, Dr.
James, Dr. Prosser
Keene and Ashwell
Kimpton, R.
Lewis, H. K.
Loisette, Professor
Murray, J.
Pritchett, W. E.
Wells, G.
Wright, J., and Co.

BRUSHES
Bailey, C. J., and Co. (Toilet India Rubber)
Dukas and Co.
Goodall, H. A. and Co. (Tooth)
Sutton, O., and Co. (Tooth)

BLOOD MIXTURE
Beedzler, J., and Co.
Lincoln and Midland Counties Drug Co.

BOTTLES
Barnett and Foster
Barrett, R. H.
Bennett & Jo.
Bratby and Hinchliffe
Breffit's (Lim.)
Brooks, Peel (Perfumer
Hearn, E. A., and Co.
Isaacs and Co.
Kilner Bros.
Lang, J., and Co.
Maw, Son and Thompson
Potts
Toogood

BUTTER COLR, &c.
Bush, W., and Son (Marigoldine)
Johnsen and Jörgensen
Oldfield, Pattison and Co.
Tomlinson and Hayward

CAMPHOR
Howards and Sons
Keene and Ashwell Homœopathic
May and Baker
Maw, Son and Thompson

CARMINE
Bush, W. J., and Co.
Sellers

CASC. SAGRADA
Duncan, Flockhart and Co.
Moss, J., and Co.
Squire and Sons
Evans, Sons and Co.

CAPSULES
Denonal, J. (Medicinal)
Duncan, Flockhart & Co. (C.S.
Durant, T., and Co.
Evans, Sons and Co.
Hooper, B., and Co.
Maw, Son and Thompson

DITTO (METALLIC)
Betts and Co.
Melin, C. (Machine)

CATALOGUE
Maw, S. Son and Thompson (Price Current)
May, Roberts and Co.
Newbery, F., and Sons
Sanger and Son
Shirley, A. W.
Thompson, Millard and Co., Ld

CAUTION
Crown Perfumery Co.
Hop Bitters Co.

CEMENT
Foulkes, W. J.
Kay Bros.

CHEMICALS
Bennett and Jenner
Bush, W., Son and Co.
Dunn and Co.
Fletcher, Fletcher & Stevenson
Gaskell, Deacon and Co. (Bi carbonate of Soda)
Goodall, Backhouse and Co.
Greeff and Co.
Hill, A. S., and Son
Howards and Sons (Pharm.
Kuhn, B.
Levermore, Aug., and Co.
Lofthouse and Saltmer
Lohmann, Dr. Paul
May and Baker
Oscar Andreae and Co.
Pronk, Davis and Co.
Stern, G. and G. (Pumiline)
Sumner, R., and Co.
Smith, T. and H., and Co.
White, A., and Sons
Whiffin, T.
Zimmermann, A. and M.

CHALK PRECIP.
Dunn and Co.
Levermore, Aug. and Co.
White, A., and Sons

CHEST PROTCTRS
Lynch and Co.
Maw, Son and Thompson
Pattison, G. (Lung)
Sanger and Sons
Schutze and Co.
Wolport Bros.
Wood, V.

CHL. OF POTASH
(Compressed Tablets)
Burroughs, Wellcome and Co
Hooper, B., and Co.

CHLORDE OF LIME
Government Sanitary Co.
National Chemical Co.
New Carbolic Sanitary Co., Ld.

CHLOR. OF GOLD
Oscar Andreae and Co.
Rowland, L.

CHLORODYNE
Burroughs, Wellcome and Co.
Davenport (Browne's)
Freeman, R.
Thomas, Wakeham and Co.
Towle, A. P. (Dr. Henry's

CHLOROFORM, &c.
Duncan, Flockhart
Lofthouse and Saltmer
Macfarlan, J. F.
Smith, T. and H.
Zimmermann

CIGARETTES
Evans, Sons and Co.
French Hygienic Co. (Coca)

CITRIC ACID
Hassalls (Phospho)
Nascio, Aveline and Co.

COCAINE HYDRO.
Houde, A.
Howards and Sons

COCA WINE
Armbrecht, Nelson and Co.
Evans, Sons and Co.
French Hygienic Co. (Cigarettes and Tobacco)

COCOA & CHOCLTE
Cadbury
Fry (Malted)
Van Houten's Cocoa

COD-LIVER OIL
Allen and Hanburys
Brekke and Howlid
Burroughs, Wellcome
Evans, Sons and Co,
Hill, A. S., and Son
Lofoden Cod Liver Oil Co.
Lorimer and Co.
Smith, T. J.
Woolley, Sons and Co.
Wright, Layman and Umney

COFFEE
Symington Co. (Coffee Ess.)

CLLPSIBLE TUBES
Betts and Co.
Brooks, H., Peel and Co.

CMPRSSD MDCNS
Allen and Hanbury's
Burroughs, Wellcome and Co.
Hooper, B., and Co.

CONFECTIONERY
Gibson, R., and Sons
Kerfoot, T.
Warrick Brothers

CONCENTD. LIQS.
Evans, Sons and Co.
Fletcher, Fletcher & Stevenson
Keith, B., and Co.

CORN CURES
Maw, Son and Thompson
Robinson, R.
Thompson, M. F.

COTTON WOOL
Haynes G., & Co. (Absorbent)
Maw, Son and Thompson
Robinson and Sons (Absorbent
Sanger, J., and Sons
Seabury and Johnson

DENTIFRICES
Du Boyer, Marie
Jewsbury and Brown
Newbery and Sons
Sutton, O., and Co.
Thompson and Capper
Woods, W. (Areca Nut)

DISINFECTANTS
Albumar Paper Co.
Chemical Carbon Co., Ld. (Cones)
Government Sanitary Co.
Hornby, A.
Hygienic Paper Co.
National Chemical Co.
New Carbolic Sanitary Co., Ld.
Quibell Bros.
Sanitas Co.

DISINTEGRATRS
Carter, J. H.
Hardy Patent Pick Co., Lim.

DOG MEDICINES
Spratts (Patent)

DRUGGISTS' SUN.
Ayrton and Saunders
Evans, Lescher and Webb (Hawley's Counter Adjuncts
Evans, Sons, and Co. (Savars
Hill, A. S., & Son
Idris and Co.
Lynch and Co.
May, Roberts and Co.
Newbery, F., and Sons
Sanger and Sons
Schutze and Co.
Tapp and Co.
Thompson, Millard and Co.
Toogood, W.
Wood, Vincent

DRUMS, CANS, &c.
Neakes and Co.

EAU DE COLOGNE
Farina, J. M.

EFFERVESCENT
Allen and Hanburys' (Saline)
Bishop, A., and Sons
Fritz and Co.

ELECTRIC APPAR.
Colthurst & Harding (Electric Light Oil)
Darton, F., and Co.
Orme and Co.

EMBROCATION
Barrett, Joshua
Clark, W.
Elliman, Sons and Co.

ENEMAS
Ingram and Son
Maw, Son and Thompson
Sanger and Son
Schutze, F., and Co.

ENGRAVERS
Barker, W., and Son
Corsan, J. R. (Glass)
Harris, A. J. (Glass)

ESSENCES, FRUIT AND SOLUBLE
Bratby and Hinchliffe
Burgoyne, Burbidges and Co.
Bush, W. J., and Co.
Bush, W., Son and Co.
Cummock, J.
Goodall, Backhouse and Co.
Hay, W.
Idris and Co.
Lorimer and Co.
May and Baker
Oldfield, Pattison and Co.
Stevenson and Howell
Tyrer, P. (Anchovies)
Woolley, Sons and Co.

ESSENTIAL OILS
Bush, W., Son and Co.
Bush, W. J. (Lemons &c.)
Cocking (Japan Peppermint)
Cummock, J.
Evans, Sons and Co.
Jakson, J., and Co.
May and Baker
Nascio, Aveline and Co.
Rocke, Tompsitt (Eucalyptus)
Stallman and Fulton
Stevenson and Howell
Symes and Co.
Vogt, G.
Warrick Brothers
Wright, Layman and Umney

ETHER
Duncan, Flockhart and Co. (Chloric)
Howards and Son
May and Baker
Robbins
White, A., and Sons

EUCALINUM
Rocke, Tompsitt and Co. (Antiseptic Poultice and Vinegar)

EUCALYPTUS OIL
Downie, B. I. P. Co.
Fletcher, Fletcher & Stevenson

EXTRACT, MEAT
Brand and Co.
Johnston's Fluid Beef
Liebig Co.
Viking Food and Essence Co.

EXTRACTS, FLUID
Allen and Hanburys
Barber, G., and Co.
Burgoyne, Burbidges
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire and Francis
Moss, J., and Co.
Oldfield, Pattison and Co.

FEEDING BOTTS.
Hearn, E. A., and Co.
Hockin, Wilson and Co.
Kilner Bros.
Maw, Son and Thompson
May Roberts and Co.
Pocock, Keevil and Co.
Thompson, Millard and Co.
Toogood, W.

FLY PAPERS
Wilson S.

FILTERING
Doulton and Co.
Mawson Swan, and Weddell
Slack & Brownlow
Silicated Carbon Fltr Co.

FOAM PRODUCERS
Bush, W. J. and Co.

FOOD WARMERS
Clarke, S.

FOOD (Infants & Invalids
Allen and Hanburys
Benger's Pancreatised
Brand and Co.
Dahl's Dispepsia Cakes
Goodall, Backhouse and Co.
Hearon, Squire (Malted)
Johnston's Fluid Beef
Lazenby, E., and Son
Liebig Co.
Maclean and Son
Mottershead and Co. (Benger's Food)
Nestle, H.
Ridge's, Dr., Food
Van Abbott (Diabetic)

FORMULÆ
Brooks, T.

GINGER ALE
Kinmond and Co.
Hay, W. (Essence)
Mills, R. M.

GLYCERINE
Fink
Martindale, W. (Nitro-Glycerine Tablets)
Maw, Son and Thompson
Price's Candle Co.

GRANULAR PREP.
Bishop, A, and Sons
Burroughs, Wellcome and Co.
Bush, W., and Co
Evans, Sons and Co.
Hearon, Squire and Francis
Hill, A. S., and Son
Kerfoot, T.
Wright, Layman and Umney

GUMS
Fink (Arabic, &c.)

GUTTAPERCHA
Duncan, Flockhart and Co.

HAIR PREP.
Bates, F. W. (Frizzetta)
Brodie, J. (Imperial Hair Dye)
Chesebrough Mnfg. Co

HERB BEER EXTS.
Newball and Mason
Oldfield, Pattinson and Co.
Potter and Clarke

HERBALISTS
Newball & Mason (Ext. of Herbs)
Potter and Clarke „ „
Wilkinson, A., and Sons (Compressed Hops)

HOMŒOPATHIC
Epps and Co.
Keene and Ashwell
Leath and Ross
Thompson and Capper
Watts, J. J., & Co.

HOPS
Wilkinson, A., and Sons (Compressed)

HOP ALE ESSENCE
Hay, W.

HOSPITALS
London Homœopathic

HYPOPHOSPHITES
Duncan, Flockhart and Co.
Dunn and Co.
Fellows
Fletcher, Fletcher & Stevenson
Symes & Co.
Swann, H. H. (Dr. Churchill's)
Yeatman, F. J.

INK [See MARKING.]
Bewley and Draper
Duncan, Flockhart

INHALERS
Chemical Carbon Co., Ld. (Cones)
Godfrey and Cooke
Maw, Son and Thompson
Toogood, W.

INSECTICIDES
Cole, W.
Greeff, R. W., and Co.
Sanford
Steiner and Co.
Vogt, G.

KETCHUP
Tyrer, P.

LARD
Ewen, J.

LAMPS, LIGHTS, &c
Clarke, Samuel ("Fairy")

LEECHES
Fitch and Nottingham
Potter and Clarke

LIME JUICE
Idris and Co.

LINSEED
Idris and Co.
Mumford, G. S.

LINT
Liverpool Lint Co.
Maw, Son and Thompson
Robinson and Sons
Seabury and Johnson

LOZENGES
Allen and Hanburys
Blyton, Baze & Co. (Medicated
Evans, Sons and Co.
Gibson, R., and Sons (Manfrs.)
Hill and Son
Houde, A. (Hydrochlorate of Cocaine)
Kerfoot, T.
Lorimer and Co.
Martindale, W. (Nitro-Glycerine Tablets)
Warrick Brothers (Heliotrope Pastilles)

LOOFAHS
Maw, Son and Thompson
May, Roberts and Co.
Sanger and Sons

MACHINERY
Carter, J. H.
Hardy Patent Pick Co., Lim.
Melin, C. (Caoutchouc
Tippetts (Weighing Machine)
Werner and Pfleiderer

MAGICLANTERNS
Hughes, W. C.

MAGNESIA
Banner, E. R. (Citrate)
Bishop, A., and Sons
Bush, Son and Co.
Dinneford
Henry, T. and W. (Calcined)
Hill and Sons, A. S.
Kerfoot, T. (Citrate)
Lorimer and Co. (Citrate)
Oscar Andreae and Co.

MALT EXT., ETC
Hearon, Squire and Francis
Paterson's Chemical Manufacturing Co.

MENTHOL
A 1 Menthol Depot, A. W. Shirley, Proprietor
Castle Menthol Co.
Cocking and Co.
Hockin Wilson and Co.
Maw, Son and Thompson
Shirley, A. W.

MARKING INKS
Barber, G., and Co. (Crimson)
Christian, J.
Hickisson, J.

MEASURES
Hicks, J. J.

MEDICINE CHSTS
Day, Son and Hewitt (Veterin.
Day and Sons

MERCURIALS
Bush, W., and Co.
Howards and Sons
May and Baker

METHYLATED SPIRITS
Burrough, J.
Harvey, J. & W., and Co.
Jones and Co.
Phillips, G., and Co.

METHYLENE
Robbins, J., and Co.

MICROSCOPES
Darton, F., and Co.
Perken, Son and Rayment

MILK
Nestle, H. (Condensed.)
Swiss Milk Co.
The Eastern Counties and British Farmers' Condensed Milk Co.

MIXING MCHNRY
Bracher and Co.
Carter, J. H.
Werner and Pfleiderer

MORPHIA
Macfarlan, J. F., and Co.
Smith, T. and H.

MUSTARD
Banner, E. R. (Oil)
Johnson, J. H., and S. (Ess. Oil
Schutze, F., and Co. (Leaves)

NEPENTHE
Ferris and Co.

NIGHT LIGHTS, &c.
Clarke, S.

OILS, PAINTS, &c
Colthurst and Harding
Gregory, W. (Devonshire Oils
Pronk, Davis and Co.
Vogeler, The Charles A., Co. (St. Jacob's Oil)

OINTMENT BASES
Chesebrough (Vaseline)
Grindley (Petroleum Jelly)

OPTICIANS
Darton, F., and Co.
Perken, Son and Rayment
Raphael, J., and Co.

PAPAIN FINKLER
Kuhn, B.

PARALDEHYDE
Zimmermann, A. and M.

PATENT AGENTS
Horn and Son

PATENT MEDCNS
Armbrecht, Nelson & Co. (Coca Wine)
Atkinson (Infant Preserv.)
Barrett, Joshua
Beecham (Pills)
Beedzler, J., and Co.
Crouch, F. B. (Wafers)
Dahl's Dispepsia Cakes
Edwards and Son
Evans, Lescher (Hawley's Counter Adjuncts, Coated Pills, &c.)
Fenning's (Powders)
Holloway (Pills and Oint.)
Hop Bitters Co., Lim.
Kay Bros., Lim. (Essence of Linseed)
Kemp, W. H. (Whoopoline)
Lalor (Phosphodyne, &c.,
Lincoln (Clarke's Mix.)
Lynch and Co.
May, Roberts and Co.
Morton, H.
Munday, J. (Injection Day)
Newbery and Sons
North Medicine Co.
Ratti and Co. (Meuphrosina)
Roberts (Foreign)
Singleton's Eye Ointment
Thompson Millard and Co
Vogeler, The Charles A. Co.

PERFUMERY, FANCY SOAPS.
Atkinson, J. and E.
Barnett and Co.
Biggleston, E. R.
Chemical Carbon Co., Ld. (Cones)
Chesebrough Manufacturing Co.
Crown Perfumery Co.
Du Boyer, Marie
Durrant, Geo.
Ewen (Soaps)
Hall's Wood Violet
Greensill, T. S., and Son (Mona Bouquet)
Mack, H.
Maw, Son and Thompson
Moody, S. W.
Mount Carmel Soap Co.
Newbery and Sons
North Medicine Co.
Pear's Soap (Dirty Boy)
Royal Perfumery Co.
Sainsbury, S. (Lav. Water)
Stern, G. and G. (Pumiline)
Travado, S., and Co.
Treatt, R. C.
Warrick Brothers
West, T. (Okell's Mona)
Woolley, Sons and Co. (Powder)

PEPSINE, &c.
Burroughs, Wellcome and Co.
Fletcher, Fletcher & Stevenson
Greeff, R. W. and Co.
Newbery (Ingluvin
Warner and Co. (Ingluvin)
Zimmermann

PEPTONES
Denaeyer's Peptone Co., Lim.

PEROX. OF HYDR.
Dunn and Co.
Robbins and Co.

PHARM. PREPS.
Allen and Hanburys
Barron, Squire and Co.
Beuger's
Burgoyne, Burbidges
Burroughs, Wellcome (Various)
Duncan, Flockhart
Ferris and Co.
Fletcher (Lqrs. for Syrups)
Greeff, R. W., and Co.
Hearon, Squire and Francis
Hewlett and Son
Hill, A. S., and Son
Hooper, B., and Co.
Howards and Sons
Keith (Conc. Tinctures)
Kuhn, B.
May & Baker (Phenacetine)
Martindale (Nitroglycerine
Sellers, J.
White, Alfred and Sons
Woolley, Sons and Co.
Wyleys (Various

PHOTOGRAPHIC
Botwright and Grey
Howards and Son (Chemicals)
Perken, Son and Rayment
May and Baker
Oscar Andreae and Co
White, Alfred and Sons

PLASTERS
Mather, W.
Maw, Son and Thompson
Quilliam, J., & Co.
S. Dalmas, A. Le
Seabury and Johnson
Smith, W. F.
Thompson, M. F.

PILLS (Coated, &c.)
Allen and Hanburys
Beecham, Thomas
Evans, Sons and Co.
Hearon, Squire and Francis
Hill, A. S., and Sons
Hooper, Dr.
Lorimer and Co.
McKesson and Robbins (Gould-Newbery and Sons [capsules]
Sanger, J. and Sons
Smith, W. F.
Swann, H. H.
Warner, W. R. (Coated)
Wyleys and Co.

PILL MACHINES
Maw, Son and Thompson
Pindar, J. W.
Robertson, J., and Co. (Coating)
Toogood, W. (Coater)

PINE PRODUCTS
Burroughs, Wellcome and Co.
Mack, Joseph
Stern, G. and G.

PODOPHYLLIN, &c
Keith, B. and Co.
Smith, T. and H. and Co.

PORCELAIN GDS.
Poths, H., and Co.
Toogood (E.c. Pots, regist.)

POLISHING
Baumgartner (La Brillantine)
Bradley, Bourdas (Albatum)
Clark, W.
Oakey, John, and Sons

PRINTING
Bell and Stone
Bowers Bros.
Facsimile Apparatus Co.
Ford, Shapland and Co.
Silverlock, H.
Townsend, J. (Exeter)

PUMILINE
Stern, G. and G.

QUININE SALTS
Heilgers, F. W., & Co.
Howards and Sons
Kuhn, B.
Oscar Andreae and Co.
Whiffin, T.
Zimmermann

RENNET
Benger's (Essence of)
Duncan, Flockhart and Co.
Johnsen and Jörgenseo
Oldfield, Pattinson and Co.

SACCHARIN
Allen and Hanburys
Burroughs, Wellcome and Co.

SALICINE
Macfarlan and Co.
Smith, T. and H., and Co.

SALOL
Whiffin, T.

SAUCES, PICKLES
Goodall, Backhouse and Co.
Lazenby (Harvey's)
Tyrer, P.

SCHOOLS OF PHARMACY, HOSPITALS, &c.
Central School of Chemistry and Pharmacy
City School of Chemistry
Edinburgh Classes
Homœopathic Establishment
Liverpool School
London Homœopathic and Medical School
Manchester College
Polytechnic Institute
Royal College of Science (Dublin)
South London School of Pharmacy, Lim.
The School of Pharmacy
Tully, J.
Westminster College

SEALING WAX
Fisher, Clark and Co.
Waterston, G., and Sons

SELTZOGENES
Idris and Co.

SHEEP DIP
Cooper, W., and Nephews
Grindley and Co.
Tomlinson and Hayward

SHOP FITTERS
Bowling and Govier
Bygrave, J. and W.
Corsan, J. R.
Harris, A. J.
Howlett, S.
Natall, E. (Show Cases)
Yates, W. S.

SOAP
Maw, S., Son and Thompson
Pears' Soap
Stern, G. and G. (Pum line Toilet and Sanitary)

SOZOIODOL
Boehm, F.
Trommsdorf, H.

SPECTACLES
Botwright and Grey
Darton, F., and Co.
Raphael and Co

SPIRIT
Boord and Son
Burrough (Pure & Methyl.)
Harvey, J. W., and Co.
Jones and Mason (Methyl.)
Macnair, J. & D.
Phillips and Co.
Smith, Stephen and Co.

SPONGE
Cresswell Bros.
Cresswell, R., and Co. (Lim.)
Maw, Son & Thompson (Bags)
Peterson, M., and Co.

STAMPS (RUBBER)
Hickisson
Pollard, A. W.
Richford, E. M.
Van Houten and Co.

STOPPERS
Austin and Co. (Sprinklers)
Barnett & Foster (The Eclipse)
Brooks, Peel (Sprinklers)

SURGICAL
Ayrton and Saunders
Bailey, W. H., and Son
Eschmann Bros. and Walsh
Haywood, J. H.
Ingram and Son
Liverpool Patent Lint Co.
Maw, Son and Thompson
Robinson and Sons
Schutze, F., and Co.
Thompson, Millard and Co.
Woolley, Sons and Co.
Wood, Vincent

STARCH
Critchley (Gloss)

SUGAR
Gibson, R., and Sons

SULFONAL
Burroughs, Wellcome and Co.
Greeff, R. W., and Co.
May and Baker

SYPHONS
Barnett and Foster
Idris and Co.
Kilner Bros.

SYRINGES
Maw, Son & Thompson, S.
Schutze, F., and Co.
Sumner, R. and Co.

SYRUPS
Churchill, Dr.
Fletcher, Fletcher (Liquors)
Idris and Co.
Swann, H. H.

TEA
Cave, Johnson and Co.
Gt. Tower St. Tea Co.
Heseltine, Wm., and Son
Kearley and Tonge
Pearse and Wheatley
United Kingdom Tea Co.
Walker and Dairymple

THERMOMETERS
Darton, F., and Co.
Hague, J. J. (Clinical)
Maw, Son and Thompson
Perken, Son and Bayment
Raphael and Co.

TIN CANISTERS
Noakes, B., and Co.

TOILET
Albucar Paper Co.
Downing, J. S. (paper)
Du Boyer
Hygienic Paper Co. (paper)
Mack, H.
Travado, S. and Co.

TOOTH PASTE
Jewsbury and Brown
Maw, Son and Thompson
Sutton, O., and Co. (Black)
Woods, M. (Areca)

TRADE MARKS
Horn and Son

TRUSSES
Bailey, W. H., and Son
Haywood, J. H.
Lynch and Co.
Maw, Son and Thompson

TYPE-WRITING
Facsimile Apparatus Co.
Hickisson (Rubber)
Pollard, A. W.
The Universal "Simplex" Type-Writer

URETHANE
Howards, Sons and Co.

VACCINATION
Renner, Dr. (Vaccine Lymph)
Sumner, R., and Co. (Shield)
Vaccine Association (Lymph)

VALUERS AND TRNSFR. AGNTS
Baker, P. C.
Orridge and Co.

VARNISH
Clark, W.
Colthurst and Harding

VASELINE
Chesebrough Manufctrin g Co.

VERMIN KILLERS
Battle, J. R.
Sanford and Son
Steiner and Co.

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PRESS OPINIONS ON CRESSWELL BROTHERS' NEW PRICE LIST

From THE CHEMIST AND DRUGGIST, July 28th, 1888.

From Messrs. Cresswell Brothers', of 1 and 2 Red Lion Square, the famous Sponge dealers, we have a full and well illustrated price list of all sorts of sponges. Besides prices, this circular gives a great deal of information respecting sponges, with details of the natural and commercial history of the article. Several of the engravings in this list are produced by a new process, and the list itself is, we believe, the most complete, and contains more information than any which has been previously issued by any sponge house. Sponges are said to be now cheaper on the market than ever before, and Messrs. Cresswell Brothers assure us that they give the trade the full benefit of the lower prices.

From THE BRITISH AND COLONIAL DRUGGIST, July 28th, 1888.

Cresswell Brothers' Sponge Price List.—This is a well got-up and attractive pamphlet, printed from a striking arrangement of type. It contains quotations for additions in assortments and kinds, particulars of reductions in prices, various new and beautifully executed illustrations, a concise natural history of the sponge, and press opinions. The list is worthy in every way of the reputation of the firm.

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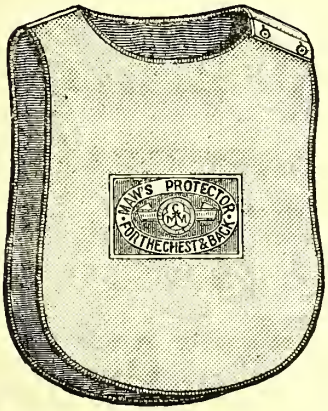

Fig. 3.
Double, for the Chest and Back.

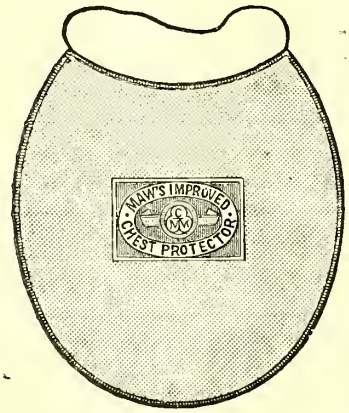

Fig. 4.
Single, Chest Protector.

Fig. 5.
Vest, a Shield for the Lungs.

CHAMOIS AND FLANNEL.

			No. 1	No. 2	No. 3	No. 4
Fig. 3.	Double	per doz.	20/	26/	32/	39/
	Ditto, perforated... ...	„	24/	32/	38/	46/
Fig. 4.	Single...	„	9/	11/6	13/6	16/
	Ditto, perforated... ...	„	11/	14/	16/	19/
Fig. 5.	Vests „	„	27/	34/	42/	51/

FELT, ASSORTED SCARLET AND WHITE.

			No. 1	No. 2	No. 3	No. 4	No. 5
Fig. 3.	Double, best... ...	per doz.	17/	22/	27/	33/	44/
	Ditto, second ...	„	14/6	19/	23/	28/	37/
Fig. 4.	Single, best	„	7/6	9/6	11/	14/	20/
	Ditto, second ...	„	6/6	8/	9/6	12/	16/
Fig. 5.	Vests, Scarlet ...	„	17/	22/	27/	33/	40/

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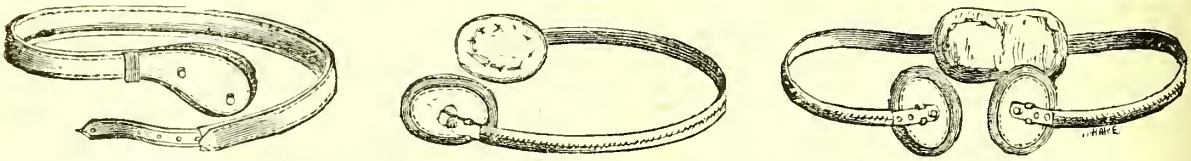

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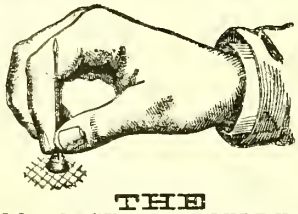

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Squares		2s. 6d. each.	

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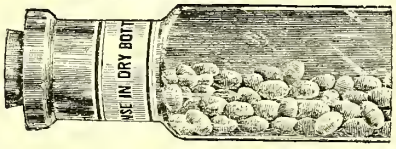

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" " ..	$\frac{1}{4}$ gr	Euonymin	2 gr.	" "	$\frac{1}{4}$ gr.	" " ..	$\frac{1}{2}$ gr.	Salicylic Acid	2 gr.
" " ..	$\frac{1}{2}$ gr.	Iodoform	1 gr.	Opium, Powdered	1 gr.	" " ..	1 gr.	" "	5 gr.
" " ..	1 gr.	and Iron..		Podophyllin	$\frac{1}{8}$ gr.	" " ..	2 gr.	Strychnine	$\frac{1}{20}$ gr.
Cannabis Indica Ext.	$\frac{1}{4}$ gr.	Ipecac. Powdered	$\frac{1}{4}$ gr.	"	$\frac{1}{4}$ gr.	" " ..	3 gr.	Zinc. Phosphide	$\frac{1}{4}$ gr.
" " "	$\frac{1}{2}$ gr.	Mercury Bin-Iodide ..	$\frac{1}{16}$ gr.	"	$\frac{1}{2}$ gr.	" " ..	4 gr.	" "	$\frac{1}{2}$ gr.
Cascara Sagrada Ext.	3 gr.	" Proto-Iodide..	$\frac{1}{8}$ gr.	" Comp.		" " ..	5 gr.	" Valerianate.....	1 gr

(Quinine, Bi-Sulphate: *10 times more soluble than Sulphate in powder.*)

In this form the ingredients are not only perfectly preserved, but do not affect the teeth, or offend the palate, and, further can be conveniently kept out of sight by those who object to be regarded as invalids. Complete list mailed free on application.

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It is the best." (*Lancet.*)
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We have been told that if we would sacrifice the choice principles of two-thirds of the barley used to make the **Kepler Extract of Malt,** and substitute therefor wheat and oats, the gain in albumen would be immense. Of course, the idea is preposterous!

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"In the manufacture of malt, those grains only are used in which, during germination, diastase is developed, and among them *barley takes the first rank.*" —Bersch, *Chemie*, Part II.

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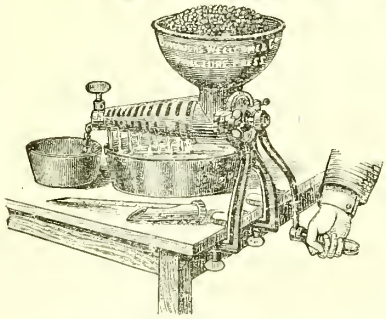

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Literary Contents.

PAGE

At the Counter 435
Bankruptcy Reports 434
Correspondence:—
Sale of Carbolic Acid in Denmark; Dispensing Prices.. 449
"100 Per Cent."; Arrangement of Stock; The Bloomsbury Club; Salts of Lemon 450
Cycling for Chemists; Doctors and Pharmacy; Protests.. 451
Is Pharmacy a Failure? Pharmacy Reform; Claxton's Oils; Mr. Burroughs Replies 452
Dispensing Notes 452
Legal Queries 454
Miscellaneous Inquiries 454
Editorial Notes:—
Handy Book of Medicine-Stamp Duty..... 438
Depreciation of Cuprea Bark 439
The Carbolic Acid Record; Prescribing Chemists and

PAGE

Editorial Notes—*cont.*
Medical Dispensers 440
The American Pharmaceutical Association; Eucalyptus Amygdalina 441
Deaths 433
French Pharmaceutical News .. 432
Gazette 435
Leaderettes 442
Marriages 433
Metropolitan Reports..... 428
New Companies 434
Personalities 433
Prospects in Chili 443
Provincial Reports..... 428
Review of the Drug Market .. 448
Trade Notes 433
Trade Marks Applied For 436
Trade Report:—
London 444
Chemicals in the North of England..... 449

Our agent for the United States, Mr. Harry V. Dakers, has taken offices at 45 Liberty Street, New York. Communications respecting advertisements, subscriptions, or any business connected with this journal may be made through him.

"HANDY BOOK OF MEDICINE-STAMP DUTY, with the Statutes and Appendices. By E. N. Alpe, of the Middle Temple and the Inland Revenue Department, Somerset House." This very important treatise will be published at the office of this journal on Wednesday next, October 3. Price 2*s.* 6*d.* or by post 2*s.* 9*d.* Most of the wholesale houses who stock the "Art of Dispensing" will also keep this work, and it may be ordered through any of them.

THE CHEMIST AND DRUGGIST OF AUSTRALASIA, published monthly at our Melbourne office, can be supplied to subscribers outside Australasia at 5*s.* per annum, payable in advance, and commencing at any date. Chemists interested in the drug trade and the pharmaceutical affairs of the Australasian Colonies will find a full record of all events affecting their occupation in *The Chemist and Druggist of Australasia.* Single copies can be supplied at 6*d.* each. Application should be made by English or American subscribers to the office at 42 Cannon Street, London.

ADVERTISEMENTS of employers and assistants can be received by us up to the first post on Friday mornings, and will be inserted in the current week's issue.

"THE ART OF DISPENSING."

OWING to the extraordinary demand which we have had for this treatise during the present week, more than one half of the edition which has been printed has been disposed of. We therefore strongly recommend all who have not yet got a copy to order at once while we are able to supply. The book is one which every dispensing chemist should have; it treats fully and practically on the principles, methods, and processes involved in compounding medical prescriptions, and contains numerous useful data and notes for the dispensing counter.

A table of the contents will be found in our issue of September 22, page 377. The treatise is a handsome octavo volume of 290 pages, and is strongly bound in black cloth, gold lettered. The published price (net) is 3*s.* 6*d.*, or post free 3*s.* 10*d.* It may be ordered from the wholesale houses of the trade, who will invoice it at 3*s.* 6*d.* net, and send it with ordinary goods, thus saving the price of postage. The following firms hold stock of the book:—

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Davy, Yates & Routledge, Park Street, Southwark, S.E.
Duncan, Flockhart & Co, Edinburgh.
W. Edwards & Son, Queen Victoria Street, E.C.
Evans, Lescher & Webb, Bartholomew Close, E.C.
Evans, Sons & Co, Liverpool.
Fletcher, Fletcher & Stevenson, North London Chemical Works, Holloway, N.
Goodall, Backhouse & Co., Leeds.
Harker, Stagg & Morgan, Laurence Pountney Lane, E.C.
Herrings & Co, Aldersgate Street, E.C.
Thos. Hodgkinson, Prestons & King, Bishopsgate Street, E.C.
Hovenden & Sons, City Road, E.C., and Berners Street, W.C.
John Ismay & Co., Newcastle-on-Tyne.
H. K. Lewis, 136 Gower Street, W.C.
Lynch & Co, Aldersgate Street, E.C.
May, Roberts & Co., Clerkenwell Road, E.C.
S. Maw, Son & Thompson, Aldersgate Street, E.C.
F. Newbery & Son, King Edward Street, E.C.
G. T. W. Newsholme, 74 Market Place, Sheffield.
Oldfield, Pattinson & Co., Manchester.
Raimes & Co, York.
Raimes, Clark & Co., Edinburgh.
J. Sanger & Sons, Oxford Street, W.
Sutton & Co., Bow Churchyard, E.C.
John Thompson, Hanover Street, Liverpool.
J. Woolley, Sons & Co., Manchester.
Wright, Layman & Umney, Southwark Street, S.E.

Names of other firms will be added to this list as we receive instructions from them. We cannot send single copies to any wholesale house for enclosure.

"The Art of Dispensing" has been adopted as a text-book by the principals of the Manchester College of Pharmacy (Mr. W. S. Turner) and the Edinburgh Royal Dispensary Pharmacy School (Mr. William Duncan), where copies may also be obtained. The Westminster College of Pharmacy will also supply copies.

The "Treatise on the Art of Dispensing" may be obtained in America from our agent, Mr. Harry V. Dakers, 45 Liberty Street, New York, at $1.

The "Treatise on the Art of Dispensing" may be obtained in Australia from the office of THE CHEMIST AND DRUGGIST OF AUSTRALASIA, price 5*s.*

THE Pharmaceutical Society's session of evening meetings begins on Wednesday evening next, when at 8.30 the professors of the School of Pharmacy will report upon their last session's work; the president will present the prizes; and Sir Henry Roscoe will deliver an address. Afterwards the portrait of Emeritus Professor Bentley will be presented to the Society, and a purse to the professor himself.

Metropolitan Reports.

AMERICAN DENTISTS IN LONDON.—An American paper, commenting on the recent prosecution of Drs. Huntley and Coe, two American dentists practising in London under the Dentists Act, informs us that "it is quite likely the Act will have to be amended. Serious injustice is being done meantime." We at this side have not heard of any proposed Amendment Bill.

THE ALLEGED ATTEMPT TO MURDER A CHEMIST.—At the Thames Police Court on Monday William Seaman was charged on remand with attempting to murder Thomas Simpkin, chemist, of 82 Berner Street, Commercial Road, by striking him on the head with a hammer. The prosecutor was still unable to attend, and the accused was again remanded.

CARBOLIC ACID MISTAKEN FOR MEDICINE. — Louisa Barrows, aged 62, the wife of a cane-dealer, living at 9 Felbright Street, Bethnal Green, was found lying on the floor unconscious by her husband when he went home from church on Sunday. She has since died without recovering her senses. She was believed to have taken carbolic acid in mistake for medicine.

AN UNPAID ACCOUNT.—In the City of London Court on Monday the case of Best *v.* Selmes was heard before Mr. Registrar Speechly. The plaintiff, Mr. James Best, 39 Moorgate Street, E.C., sought to recover from the defendant, Mr. S. Selves, pharmaceutical chemist, carrying on business at 5 Copthall Buildings, E.C., the sum of 2*l.* 17*s.* 9*d.* Mr. A. L. Oliver appeared for the plaintiff. Evidence was given by one of the plaintiff's employés of the goods having been supplied to the defendant in the way of his business as a chemist. The defendant did not dispute the claim, and the learned Registrar found for the plaintiff for the amount claimed with costs.

CRICKET.—Camwal C.C. (Chemists' Aërated and Mineral Waters Association, Limited) *v.* Idris & Co. C.C. Played at Gospel Oak on September 22:—

Camwal C.C.

E. M. Colls, lbw, b Darrah	28
E. A. Doo, b Darrah	22
F. G. Pirie, c Kidby, b Darrah	2
A. J. Farbrother, c Barber, b Miller	46
H. T. Butler, b Miller	18
J. Moore, b Darrah	1
E. Pettit, b Darrah	0
J. Weller, b Darrah	0
P. J. Snellgrove, st Kidby, b Darrah	6
Packe, lbw, b Darrah	1
Rowe, not out	0
Extras	12
Total	136

Idris & Co. C.C.

1st Innings		2nd Innings	
Darrah, run out	1	b Colls	0
J. Barber, b Colls	1	b Colls	0
T. C. Kidby, c Butler, b Doo	0	c Farbrother, b Colls	0
E. George, c. Pirie, b Doo	0	b Colls	0
J. Beynon, b Colls	0	absent	0
F. Hilsden, c Doo, b Colls	3	b Farbrother	17
J. Hargreaves, b Colls	3	not out	0
T. Miller, b Colls	0	b Colls	5
A. Chilton, run out	0	b Colls	1
J. Black, not out	0	b Colls	5
F. Harrison, b Colls	0	b Colls	0
Extras	2		4
Total	10		32

INSULTING AN ADVERTISER.—Mr. James Hickisson, the proprietor of the Crystal Palace Bond's marking ink, and one of the best known advertisers in London, prosecuted C. F. Maloney on Saturday at the Clerkenwell Police Court, on a charge of using abusive language and threats. The magistrate found it proved that the defendant had gone up to the plaintiff in the Strand, and, touching him on the shoulder, said, "Pay me what you owe me." Mr. Hickisson alleged that further abusive language was used, but as this was not corroborated, the magistrate regarded the touch on the shoulder and the demand for payment as all that were really proved. He was of opinion that such conduct came under the meaning of abusive and insulting behaviour, and he inflicted a penalty of 1*s.* and costs.

BREAKING A CHEMIST'S WINDOWS.—On September 22, at Wandsworth Police Court, Edward Strickland, a young man of gentlemanly appearance, was charged with wilfully breaking a plate-glass window at the shop of Mr. Arthur F. Lawrence, a chemist, of 125 St. John's Hill, Battersea, on the previous evening. Prisoner explained that he broke the window in order to get a lodging for the night. A brother of the prisoner told the magistrate that Edward had squandered 3,000*l.* in three years, and a second fortune of 1,600*l.* in three months. The young gentleman did not seem to want to go to prison now, as it would destroy his last chance of retrieving his position, but Mr. Bennett (the magistrate) said he was not quite sure of that. After some consideration Mr. Bennett ordered him to pay a fine of 5*l*, in addition to the damage, or in default to be imprisoned for one month. The prisoner was removed to the cells, and threatened to commit suicide if the money was not paid.

Provincial Reports.

Items of news, and newspapers containing matters of interest to the trade, sent to the Editor, will much oblige.

BARNSLEY.

THE HOYLAND POISONING CASE.—It will be remembered that a coroner's inquest was held some time ago on the body of a child of 4½, who had died after taking a worm powder sold by John Matthews, carrying on business as a chemist and druggist at King Street, Hoyland Nether. [There is no person of this name on the register of chemists and druggists, nor any person of the name of Matthews with a Barnsley district address.—ED.] The finding of the coroner's jury was that the child died of narcotic poisoning, and subsequently information was laid at the Barnsley Police Court (see our issue of September 8, page 333), as a result of which Mr. Matthews was on Wednesday charged before the magistrates at Barnsley Court House with the manslaughter of Gwendoline Mable Daykin, aged 4 years and 8 months, the daughter of Robert Daykin. Mr. Williams, West Riding, solicitor, instructed by the Treasury, appeared for the prosecution; and Mr. Beverley, barrister, defended. In opening the case, Mr. Williams recounted the principal facts. Two powders were given to a sister (aged 11) of deceased by the defendant himself, 2*d.* being paid for them, and one of these was administered to deceased, who soon afterwards fell into a sound sleep from which she never awoke, in spite of the efforts of two medical men. The remaining powder and two which the doctor afterwards obtained from Mr. Matthews were handed over to an analyst, and morphia was found in them as well as in the stomach of the deceased child. As showing how morphia might have got into the powders, Mr. Williams stated that at the back of defendant's counter there was a ledge on which bottles were placed. Four bottles were afterwards found standing together, one of which contained morphia and another calomel. He did not say that there was any intention to give morphia, but the two bottles being on the same shelf and on the same ledge it was possible that by not exercising sufficient care morphia had been mixed with the other ingredients in the powder. Evidence was then called. Ethel Rayne Daykin proved the purchase of the powders. She saw Mr. Matthews weigh some brown stuff, which he got out of a little round tin. He got the tin from behind the glass-case. Dr. Ritchie, who attended the deceased, proved that the child died of a narcotic poison. Mr. A. H. Allen, F.I.C., F.C.S., stated that he analysed the powders supplied by the defendant to the police. These powders contained 4 grains of jalap and 2½ grains of morphine, sufficient to kill

yone not an habitual opium-eater. Powders afterwards tained from defendant's shop he found contained jalap, lomel, and a little sweetening, probably sugar. Further idence was given by two police officers regarding the sition of bottles on the shelf, but it transpired that their its to the shop were not made until several weeks after e child's death. Mr. Beverley, for the defence, said he uld not contend that the cause of death was not due to me narcotic poison, but there was nothing to show criminal glect on the part of the defendant. He proceeded to point t the bearing of cases referred to by Mr. Williams on the esent prosecution, showing that the evidence before them s nothing near so strong as in the case of Noakes, which e Lord Chief Justice held would not support a charge of nslaughter. He did not admit that morphia was put in e powders by the defendant, but even if that were the inion of the Bench, the evidence showed nothing like the elessness exhibited in the case of Noakes. The Bench ired, and, on returning into court, the Chairman said they d come to the conclusion that the case was a proper one be investigated. At the same time they were of opinion t, while morphia had been supplied in the powders, the elessness exhibited was not so culpable in its character as uld secure a conviction at the hands of any jury if they t the case for trial. They, therefore, dismissed the case.

BECCLES.

HE FATAL GINGER-BEER BOTTLE.—Mr. C. W. Chaston d an inquest here on September 21, touching the death Ernest Lawrence, aged 2 years, son of Mr. H. G. Lawrence, eral-water manufacturer. It appears that the deceased d went to his father's factory the previous morning, and nk some vitriol from a bottle, probably supposing it was ger beer. He died from the effects at an early hour on day morning.

BIRMINGHAM.

ASON COLLEGE opens on Monday next, October 1, with address to the students by Professor W. Hillhouse, M.A., S., chairman of the Academic Board.

N UNQUALIFIED PRACTITIONER HEAVILY FINED.—At e Cannock Police Court on Monday, Mr. T. P. O'Kelly, of nesford, was fined 10*l.* and costs—1*l.* 2*s.* 6*d.*—for pre- ing to be a surgeon on May 9.

IDLAND COUNTIES CHEMISTS' ASSOCIATION.—The meet- g of this organisation will, as we have already announced, mence on the third Tuesday in October. The syllabus of ceedings is now in course of preparation. The social ent will be made a feature of the gatherings.

RICKET.—The Midland Chemists' Association were to ha played a cricket match on Wednesday last at the Lagley Cricket Ground against the Birmingham Travel- lin Post Office team, but owing to a death of one of the pla ers of the latter the match was postponed at the last mo ent.

LST Monday and Tuesday a sale of optical stock was held at l Bull Street, Birmingham, by the proprietors (Misses Ga ory). The goods were sold at a very cheap rate, nobody bei conversant with the value of the microscopes, &c., off d. A first-class Daniell's pyrometer complete was put up, nd as this name sounded of dynamite nobody offered to bid and very few dared to handle it. A feeling of relief we through the audience when an analyst bid a few shi gs for it (the only bid) and carried it away in safety. As e was marching out of the door he was stopped by sev al people, including a policeman, and was asked what it vs used for.

PARMACY IN BIRMINGHAM.—At the annual meeting of the Midland Counties' Chemists' Association Mr. J. G. Bar tt, of Leamington, concluded that because not much ben olence was meted out by the association the craft must be i a flourishing condition. Such, however, he was assured, was ot the case, and it would seem that pharmacy is not by any ieans in so prosperous a condition. The past few months give much evidence of this. We hear and read of old-fash ned businesses, which in days gone by were household wor in their own district, being sold and realising but a small fraction of their value in earlier times. A second phase is the numerous calls upon the attention of the officials of the bankruptcy courts, and paying compositions privately. This is especially the case in the pure drysaltery line. A third is seen in the fact that in very many establishments only the principal is to be seen, and if additional aid should happen to be wanted for a while it is obtained from the domestic circle, generally the wife. Apprentices are eagerly sought after. Advertisements for these useful helps appear almost daily. Travellers who are extremely thick in this town tell lamentable tales of the deterioration. Orders for commonly used drugs are given in quantities of ½ oz., 1 oz., 2 oz , and so on, and accounts of 30*s.* are collected with difficulty. The most prosperous concerns are the great cutters, and the suburban pharmacists who know how to turn their talents to advantage—even to prescribing.

HOMŒOPATHIC CONGRESS.—The annual Congress of homœopathic practitioners of the United Kingdom was held in Birmingham on Thursday of last week, as briefly reported in our last. Dr. Dyce Brown (of London) presided, and there was a very large attendance. The Congress met at the Midland Medical Institute, Edmund Street, from which an unsuccessful attempt was made thirteen years ago to exclude homœopathists. The President, in his opening address, dealt with the subject "Liberty of opinion indispensable to true progress in medical science." In tracing the history of homœopathy he alluded in indignant terms to the opposition which homœopathists had experienced from the "old school" of medical practitioners, and confirmed the assertion made by a recent writer that the *odium medicum* in regard to homœopathy and liberty of opinion was carried to a length to which the *odium theologicum* at the present day was nothing. He thought they might congratulate themselves on the progress of their cause since they met last year. The ultimate adoption of homœopathy as the dominant practice must come sooner or later, but the first step towards this was the permission of entire freedom of opinion. In every department of study but that of therapeutics, in all sciences, in art, and even in religion, anyone might now have his own opinion and carry out his views without let or hindrance. The tactics of the old school at the present day were to endeavour to absorb the practical results of homœopathic teachings while repudiating the sources whence they were derived and ignoring the principle on which they had been obtained. Against this they must persistently protest, as alike unjust to those to whom they were indebted for the knowledge of the truths it was their mission to propagate and injurious to the development of these truths. Only on those terms could the best interests of the profession and the public be secured, and until that was yielded no real progress in medicine could be made on any firm and permanent basis. On the motion of Dr. Butcher, seconded by Dr. Clifton, a vote of thanks was passed to the President for his valuable and interesting address. Subsequently several papers were read. One was contributed by Dr. Gibbs Blake on "The treatement of cases in which micturition is a prominent symptom"; another by Dr. Walter T. P. Wolston on "Naso-pharyngeal Hypertrophies in relation to deafness"; and a third by Dr. Compton Burnett, having special reference to the sycosis of Hahnemann. In the evening the members of the Congress dined together at the Grand Hotel.

BOLTON.

CARBOLIC ACID POISONING.—The deputy coroner of Bolton (Mr. F. H. Taylor) held an inquest on Wednesday on the body of Robert Bell, 33 years of age, a stripper and grinder, who died on Monday. He had been drinking pretty heavily for some time past. Then he decided to sign the pledge, and called at the Blue Ribbon Mission Room, but found that he had arrived too early, so to pass the time he called at several public-houses. Then he bought some carbolic acid, took it home, drank it, and died. The foreman of the jury pointed out that the label had been taken from the bottle. Such cases as this were happening so frequently now that it behoved juries to make special inquiries into them. Had the bottle in this instance been labelled they would have known who had purchased the poison and by whom it was sold. A verdict of "Suicide whilst in a state of temporary insanity" was returned.

BRENTWOOD.

An Overdose of Chloral.—Frederick Thomas Welham, aged 41, a veterinary surgeon, of Onger Road, Brentwood, died on Saturday afternoon, just after taking a dose of chloral. Some years ago, when deceased was an inspector of cattle in Ireland, he was in the habit of occasionally taking small doses of chloral for promoting sleep, but discontinued the practice upon the advice of his doctor. For some weeks prior to his death he had suffered from want of sleep, and on Saturday, upon returning home after attending some animals, he laid down and endeavoured, without success, to get sleep. In the afternoon he went into his surgery, took a bottle of chloral, and, being unable to find his glass measure, he appears to have taken a draught from the bottle. He seems to have taken an overdose, and he immediately called to his wife, "I have taken too much; I'm poisoned. Water! Oil! Quick!" Mrs. Welham hastened to the bedroom, and found him kneeling on the ground endeavouring to vomit. She gave him some hair-oil, and this he immediately brought up, but before she could administer any more he fell from her arms and died in two or three minutes. A medical witness at the inquest attributed the death to heart disease.

BRIGHTON.

The Chemist's Bill.—On September 21, at the County Court, before Judge Martineau, a person named Tiffen sued Mr. R. E. Brown, chemist, of Guildford Road, for 9*s.* 10*d.*, for money had and received. The plaintiff, who often makes an appearance before his Honour, said an order was made against him to pay a certain sum of money, and defendant succeeded in getting 9*s.* 10*d.* too much out of him. He contended that certain small sums had been charged against him which ought not to have been charged. An order of commitment was drawn up against him, and he was obliged to pay or go to prison. His Honour said if too much had been paid an order of restitution could be made, but he could not recover under this action. He must proceed in a proper manner and show where he had been overcharged. He could not make head or tail out of the claim. The Plaintiff: Neither can I, your Honour. (Laughter.) A verdict was given for the defendant.

BRISTOL.

Belladonna Berries.—A child named Gertrude Catherine Maby died at Redland on Sunday from illness brought on apparently by eating berries which she had picked up outside a grocer's shop in Blackboy Hill. From a description given by her brother, and from the medical evidence, the jury at the inquest came to the conclusion that the berries were those of the deadly nightshade. The jury returned a verdict of "Death from eating poisonous berries," and added that shopkeepers who sold the belladonna berries in bunches for ornamental purposes should be careful how they dropped any outside their shops.

BURSLEM.

Carbolic-acid Poisoning.—A young married woman, named Caroline Gibbs, died at Smallthorne on Sunday afternoon, apparently from carbolic-acid poisoning. Her husband, a collier, went out for a walk on Sunday morning, and on his return found her lying on the sofa seriously ill. A doctor was called in and found the woman exhibiting symptoms of poisoning. He remained with her until three o'clock, when she died. There was a bottle of carbolic acid in the kitchen, and standing near it a cup which had evidently contained some of the liquid. It is supposed that the deceased had taken some of the acid, whether intentionally or by misadventure is not known. She was only 19 years of age.

FOLKESTONE.

Suicide by Carbolic Acid.—An inquest has been held here concerning the death of Lewis Claude Fox, a bath-chairman, who had killed himself by taking a large quantity of carbolic acid. His wife said her husband was 36 years of age. He seemed to be very excited when he went home at nine o'clock on Saturday night, but became very quiet as witness sat talking to him. He was sober, although he had been drinking. Witness did not leave him until a few minutes before twelve, when she went to bed, leaving him in the kitchen. Soon after he appears to have drunk from a bottle of carbolic acid which stood on the shelf, and which was used for the drains. He was in the habit of drinking, and when in drink would act like a madman. The jury returned a verdict of "Suicide whilst temporarily insane."

LIVERPOOL.

Two New Hospitals.—Two hospitals, one in Netherfield Road North, and the other in Grafton Street South, were opened by the Mayor and Mr. Robert Hamilton, F.R.C.S., chairman of the Hospitals Committee, on September 22. They are intended for infectious diseases, and were built by the corporation at a cost, exclusive of the sites, of about 27,000*l.*

Is this a Joke?—At the meeting of the Health Committee on Thursday, September 20, Mr. Woodcock, chemist, and the medical officer of health exhibited a bottle shaped like a coffin, which they suggested for holding carbolic acid and other poisons to prevent the unwary from indiscriminate imbibing. It is questionable if the bottles are likely to come into general use, but it might be worth the while of some temperance bodies to introduce them to their tippling friends.

Poisoned by Carbolic Acid.—An inquest was held here last week on the body of William Smith (50), a master blacksmith, who lived at 89 High Street, Wavertree. From the evidence it appeared that he came home on the Monday afternoon the worse for drink, and took a draught from a bottle similar in appearance to the one which usually contained his beer, but which was half full of carbolic acid, obtained from the Local Board of Health for disinfecting purposes. Deceased at once discovered his mistake, and medical assistance was called, but he died in great agony in an hour and a half. The jury returned a verdict of "Death from misadventure."

NOTTINGHAM.

Pharmaceutical Education.—We have received particulars of the pharmaceutical classes which are to be held at the University College this session by arrangement with the local Chemists' Association. A course of about twenty-five lectures on materia medica, illustrated by specimens, will be given at 8 on Thursday evenings during the first two terms of the session. Fee for the course, 15*s.* Also a course of lectures and practical classes on pharmaceutical botany will be given on Tuesday evenings, from 8 to 10, during the first and second terms. The instruction will include each evening an illustrated lecture and a practical class for the examination and demonstration of specimens. There will be an examination at the end of each term, and on the combined results of these examinations college certificates will be awarded. Text-books: Prantl and Vines' "Text-book of Botany"; Bentley's "Manual of Botany." Fee per term, for lectures and classes, 7*s.* 6*d.* Next session (1889–90) pharmaceutical chemistry and practical dispensing will be taught.

SHEFFIELD.

The Tenders by Mr. G. T. W. Newsholme for the supply of drugs to the Sheffield Union and to the Public Hospital and Dispensary for the ensuing quarter have been accepted.

Dr. Symes has agreed to give the inaugural address to the students of the School of Pharmacy on Wednesday, October 10.

Alleged Inaccurate Dispensing. — At the West Riding Court on Tuesday, before Sir Henry Stephenson and Mr. T. W. Cadman, John Gibson, chemist and druggist, Chapeltown, was summoned for supplying to Police-constable Taylor a bottle of medicine which was on analysis found to be different in "nature, substance, and quality" from what it should have been if the prescription which the constable submitted had been correctly dispensed. It was admitted that the officer failed to offer to divide the medicine as required by the Act, and Mr. Wilson contended

tlt that was fatal to the case. The Bench held the same viv, and the case was dismissed. Another case of a similar clracter which was expected to come on was withdrawn.

STAFFORD.

HE MEANT CAMOMILE TEA.—Hetty Spiby, married, but nc living with her husband, was charged before the magistrtes last week with having attempted to commit suicide. Sh came home late, her father rebuked her, and she drank abit a wineglassful "from a bottle containing iodine"—so sa the report. She was taken to the infirmary and cured. Th prisoner pleaded in defence that she had taken the iode in mistake for camomile tea. She was cautioned and dirharged.

TUNBRIDGE WELLS.

LARMING THE PUBLICANS.—At the Tunbridge Wells adurned licensing sessions on Monday last, Mr. Edward Drkley, chemist, of High Street, Tunbridge Wells, applied fo sweets licence in order that he might sell coca wine. MW. E. Cripps opposed on behalf of the local licensed vicallers, and raised several legal objections to the licence beg granted. The magistrates, however, acceded to Mr. Drkley's request.

IRELAND.

DUBLIN.

IE premises lately occupied by the Official Co-operative Soety, Dublin, are offered for sale by auction on October 8. Th is a good opportunity for a London wholesale house to op a branch establishment here.

UTTING.—One of the cutting chemists in the suburbs is adrtising citrate of magnesia 4 oz. for 4½*d.*, 1*s.* 4*d.* per lb. As *d.* per oz. is the price in the old-fashioned medical halls, th announcement has startled us.

EW BUSINESS PREMISES.—Mr. English, an enterprising yog pharmaceutist, has just opened a well-appointed and hasome little pharmacy at 15 Rathgar Road. This gentlema was for a length of time manager of a leading suburban bsiness.

E "BLACK DRAUGHT" SCARE.—Several provincial and a mber of city chemists complain of a large falling-off in the ale of this valuable compound since the fatal accident in elfast. One pharmacist has introduced a "rose draught" as substitute for the popular nostrum, the principal ingrdients of which seem to be magnesii sulphas and infusum ros

AALGAMATION OF MEDICAL SCHOOLS.—In a recent nuber of the *Medical Press and Circular* it was stated tha the council of the R.C.S.I. have adopted the proposition, put forward a short time ago, to amalgamate the medical schols of Dublin, and that the combined college will be fored at once, and enter on its functions next session. Shld this take place, no night lectures will be delivered herfter on any subject. This is a matter of great moment to e Irish pharmaceutical student, as, should the night lectres be stopped, he will be unable to take out the college cerficate in practical chemistry required by the Society wit out giving up his employment for at least three months.

CE TO DUBLINIANS—SEQUEL TO SEQUAH.—The great Am ican tooth-extractor has left us, but his memory rema s. An old dame of some threescore summers was a few day ago seated on a stool near the scene of his recent exp its. She had been there some time when an officious me ber of the metropolitan guard suggested to her to "Mve on, now." She resented the interruption, saying, "Sre, thin, sarjint, I amn't doing any harm. Didn't I hea that a breath o' the air that was about the blessed Amikay dochter wud do me pains good? Sarjint, darling, shu ye wudn't keep an ould woman from being cured, wud ye! The "sarjint" was inexorable, however, and as we pasd on we could hear that her language soon sank from coa ng to abusing.

EMATOXYLON VERY MUCH MODIFIED.—*Scene*—Hall of Pha naceutical Society during Modified exam. Candidate and examiner discovered; the former biting his nails, pulling at his collar, and looking generally perturbed; the latter, smiling with the bland interrogative smile of his order.

Examiner (sweetly): Well, now, Mr. Murphy, tell me how you would prepare extract of logwood.

Candidate (hesitatingly): I'd—I'd get my logwood, sur.

Examiner (approvingly): Just so, Mr. Murphy.

Candidate (confidently): I'd get my logwood, sur, and—and—(after a long pause, desperately)—put it in a tincture-press; squeeze the juice out iv it; filter through paper; boil, to soften the albumen; then evaporate to a syrupy consistency, decant the ethereal solution, and preserve in a stoppered bottle.

Mr. Murphy has returned to his native county of Clare to pursue further his researches in the subtle science of pharmaceutical manipulation.

THE PHARMACEUTICAL SOCIETY.—The thirteenth annual meeting of this Society is to be held on Monday next, October 1, at 7.30 P.M., at No. 11 Harcourt Street, Dublin. Messrs. Beggs (Dalkey), Ray (Dublin), Minchin (Athy): Sir G. B. Owens, M.D. (Dublin); R. Montgomery, M.R.C.S.E. (Dublin); J. C. C. Payne (Belfast); and H. Whitaker, M.D., are the retiring members of the Council. Messrs. Ray and Payne do not seek re-election. The following are also candidates for seats on the Council:—Mr. Meredith Rountree Whitla, Monaghan (nominated by Messrs J. C. C. Payne and W. F. Wells, jun.); Mr. Patrick Merrin, 12 Lower Camden Street, Dublin (nominated by Messrs. M. M. J. D'Arcy and T. R. Shannon); and Mr. Edward M'Creery Shea Hill, 5 Donore Place, South Circular Road, Dublin (nominated by Messrs. T. Batt and C. Mannin). The following notices of motion are announced:—

Mr. Merrin: "That this meeting recommends that the 20*l.* hitherto set apart as a subscription to the *Pharmaceutical Journal* be henceforth discontinued, and applied for the purpose of forming a fund for prosecution purposes."

Mr. Hill: "That this meeting recommends that THE CHEMIST AND DRUGGIST be the future official journal of the Society."

"That this meeting recommends that the full proceedings at Council meetings be reported, except on special occasions when it may be necessary to go into committee."

TWENTY-FIVE POUNDS' FINE FOR SELLING METHYLATED ESSENCE OF GINGER.—On September 20, Mr. Charles Winton, apothecary, Folk House, Clonliffe Road, was summoned at the suit of Mr. Pye, officer of Excise, for having sold essence of ginger capable of being used internally as a medicine, in the preparation of which article methylated spirit had been used. The maximum penalty is 100*l.* Mr. G. Byrne appeared for the defendant. Mr. J. L. Finucane, Excise officer, deposed to having purchased 1 oz. of essence of ginger for 6*d.* at Mr. Winton's establishment on July 16. Miss Winton was there and took the 6*d.* He sent a portion of the essence to Somerset House for analysis. Mr. James Woodward, analyst, Somerset House, was examined to prove that the compound contained about 50 per cent. of methylated spirit. Essence of ginger was an article capable of being used internally. Mr. J. B. Smith, supervisor of the district in which Mr. Winton's shop was situated, deposed that he called on Mr. Winton to tell him that he had heard a complaint about his selling the essence manufactured with methylated spirits, and to ask for an explanation. Mr. Winton said that when he came home his daughter told him of the occurrence, and he found, on smelling the bottle out of which Mr. Finucane had been supplied, that it contained methylated spirits, but could not say how it came there. He gave his information in a straightforward manner. To Mr. Byrne: There appeared to be nothing in the place which would he used to manufacture this essence of ginger. Mr. Winton had purchased the compound from Messrs. Boileau & Boyd. He asked his Worship to impose the lowest penalty. The magistrate fined the defendant 25*l.*, and recommended a mitigation. Messrs. Boileau & Boyd have promptly and emphatically contradicted the allegation that any essence of ginger containing methylated spirit could have come from them; and they state that they have asked the Excise authorities to have their essences and tinctures sampled, and to satisfy themselves that they are made from rectified spirits of wine only, and have also instructed their solicitors

to institute proceedings against Mr. Winton in respect of the imputation cast upon them. Mr. Winton has replied to Messrs. Boileau & Boyd's letter asserting that he holds Messrs. Boileau & Boyd's invoice for the only tincture of ginger he ever had in his house since he opened, and he adds he means to use that invoice to clear himself and indemnify himself for any loss he may sustain.

SCOTLAND.

ABERDEEN.

SEQUAH says Aberdeen does not come up to his expectations—and we believe it.

DR. JOHN GORDON has again been appointed assistant to Dr. Cash, professor of materia medica in the university.

CATTLE-POISONING.—On September 18, in the Sheriff and Jury Court, William Mathieson (56) was convicted on a charge of cattle-poisoning. His *modus operandi* was to scatter packets of white lead in the fields where the cattle were grazing. He was sentenced to nine months' imprisonment.

ALLEGED STRYCHNINE-POISONING.—In the High Court of Justiciary, on September 20, Margaret Jane Bisset (24), dressmaker, Huntly, was charged with having administered strychnine to her son. Evidence was given by Sir Douglas Maclagan, Edinburgh; Professors Hay and Hamilton, Aberdeen; and Dr. Wilson and Mr. Chalmers, chemist, Huntly, and others. Ultimately the Crown withdrew the charge, and his lordship directed the jury to return a verdict of "Not guilty."

EDINBURGH.

CUTTING.—"We have not as yet reached the rock-bottom prices," writes a correspondent, "judging from the keen opposition which is now arising among the cutting establishments themselves. This is the only solution of the question—the question being the survival of the fittest."

THE CIVIL SERVICE STORES.—There is again a rumour—this time with some foundation—that the stores in St. Andrew's Square are making preparations for starting dispensing. This has often been talked about, but hitherto the talk has come to nothing. The stores have a big business, and do in most druggists' articles.

FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

LOCUST OIL SOAP.—A Marseilles firm is said to have sent an agent to Algeria, in the cricket-infested districts, to collect the dead insects and "render" the fat. An excellent soap is reported to be obtainable therefrom. Verily it is an ill wind that blows nobody good.

Dr. BROCA'S STATUE, now standing in the little square facing the School of Medicine's new entrance on the Boulevard St. Germain, is soon to be removed to some of the courts within the building, and in its place a statue to Danton, the celebrated Terrorist, will be erected. Evidently it is Marat, who was a physician, who ought to stand there—only his statue has not been made yet.

CRIMINAL ANTHROPOLOGY.—The international Congress of criminal anthropology will hold its second session in Paris on August 1, 1889. The meetings are to take place at No. 15 Rue de l'Ecole de Médecine, not far from the square where the Danton statue will stand. Membership fee, 20f. For remittances and informations address Secretary-General Magitot, 8 Rue des Saints-Pères, Paris.

RICHELIEU'S APOTHECARY, Maitre Perdreau, seems to have had a good customer in the terrible Cardinal. According to old documents recently brought to light, Richelieu during the year 1635 took 75 enemas and 127 doses of purging cassia, besides any quantity of laxative draughts and bottles of ptisane, amounting in all to 1,401 livres and 14 sous. It may be interesting to know that each dose of cassia with syrup was charged 4 livres, and the laxative draught 6 livres, while enemas were only 4 sous apiece. The livre of the time may be set down as being equivalent to about 4*s*. of our day.

SANATORIUM FOR LYONS.—M. Sabran, the president of the City Hospitals' Managing Council, has donated to the hospital board a sixty-acre plot of land situated on the Giens peninsula, about six miles from the Hyères town, in the Mediterranean, for the purpose of establishing a children's sanatorium connected with the Lyons hospitals. Immediate steps are to be taken by the city to erect buildings to accommodate at first 100 inmates. The City of Paris has a sanatorium of the sort at Berecks-sur-Mer, a few miles south of Boulogne, on the English Channel; but it must be confessed Lyons will this time get the better of her northern sister-city.

PURE CANE SUGAR WILL NOT REDUCE FEHLING'S TEST.—Some time since Dr. Peltier announced to the Tenth Arrondissement Medical Society that he found cane-sugar to occasionally reduce the cupro-potassic liquor in the cold, and a committee was appointed to examine the question and report, formed of MM. Houdé, chairman, Vigier, Galbrun, and Houdas. Not to waste time on the relation of numerous experiments, suffice it to say that the committee have come to the following conclusions:—(1) a solution of cane-sugar when left for forty-eight hours in contact with the cupro-potassic test will, as Dr. Peltier stated, cause the formation of some red precipitate, but the quantity is very slight and altogether out of proportion with the amount of sugar employed; (2) as the reduction in the dark will not begin to take place before the fifth day, and then proceed very slowly, the reaction spoken of is evidently due to the hydratation of the cane-sugar into glucose under the influence of water and light, a change already spoken of by Claser; (3) pure cane-sugar, unaltered, will not reduce the cupro-potassic liquor.

CHEMIST AND CAPITALIST.—That a process successful in the laboratory may fail commercially is a well-known fact, also that scientists are sometimes lacking in worldly wisdom, of which truths the following may serve as an illustration: M. Raoul Pictet, of Geneva, the eminent physicist and chemist, who was the first to liquefy oxygen and hydrogen, obtained in 1880 a patent for rectifying alcohol by artificial cold. In order to work his process he entered into a contract with MM. Erlanger & Cie., who were to supply the funds. From laboratory experiments M. Pictet was satisfied that 2f. 50c. a hectolitre (about 2*s*. the 20 gallons) would cover all the cost, and on this estimated basis MM. Erlanger & Cie. agreed to advance 500,000f. as an equivalent of the patent right. A distillery was established at Croix-de-Berny, near Paris, and considerable money spent generally. Unfortunately on the commercial scale the process failed to work, and rectifying could not be effected for less than 6f. a hectolitre. The Erlanger people at this stage offered to leave off operations, each party giving a quit-claim. But M. Pictet would not accept, saying he had not guaranteed the exact cost figures, and would take no less than the unexpended balance of the 500,000f. Hence a lawsuit before the Seine Civil Court, with the usual variety of claims and counter-claims from either side. The court held that Pictet could claim nothing for a process not fulfilling the conditions of the contract; that Erlanger & Cie. asked nothing for the Berny works, but only their actual advances, viz., 167,443f.; that, on the other hand, Pictet was entitled to 20,000f. damages for the lapsing of his French patent due to Erlanger's negligence. Therefore Pictet was ordered to pay to Erlanger & Cie. the balance, 147,443f., and costs of action.

TRADE-MARKS COMPULSORY.—A Bill is to be introduced into the Austrian and Hungarian Parliaments next session, making it compulsory upon all manufacturers to adopt and register trade-marks.

SOLVIN (POLYSOLVE).—A yellowish, oily liquid, soluble in 2 parts of water, but the substance is thrown out of solution on the addition of more water. It mixes freely with alcohol, ether, chloroform, turpentine, and glycerine. It dissolves such substances as sulphur, iodoform, naphthalin, salicylic acid, salol, chrysarobin, camphor, asafœtida, cantharidin, and santonin to the extent of 1 in 50. It is owing to this latter property that it is used in medicine as a basis for liniments and ointments. It should be kept in perfectly full bottles, as it becomes thick on exposure to the air.

Trade Notes.

MESSRS. MAY & BAKER announce that from this date they reduce their wholesale price for Sulphonal-Bayer to 67*s.* 6*d.* per lb.

MESSRS. DUKAS & CO., 20 Red Lion Square, W.C., have issued a new illustrated catalogue of fancy brushes. It contains 200 pages, and contains "life-size" drawings of all their patterns, and should be very useful to chemists dealing in these articles.

MR. THOMAS KEATING'S business has been removed from London House Yard, St. Paul's Churchyard (in consequence of the expiration of the lease) to a more commodious warehouse which has been specially erected for the firm at Bride Lane, New Bridge Street, E.C.

MESSRS. FLETCHER, FLETCHER & STEVENSON are issuing a neatly got-up list and order-book referring to "Fletcher's Concentrated Liquors." The list is alphabetically arranged, and gives full particulars regarding each liquor. The pages are interleaved with order-forms.

AT the Mart, Tokenhouse Yard, on Monday, Messrs Valentine Robinson & Co. offered a variety of shares in miscellaneous enterprises. Among these were 25 1*l.* shares in Cayley & Co. (fuller's earth), which sold at 17*s.* 6*d.*, and 250 1*l.* shares in John's Bottling and Stopper Company, which realised 3*d.* per share.

IN connection with the note in our last issue regarding the supply of medicine-stamps, Messrs. F. Newbery & Sons inform us that they will now supply any number of any denomination, and we may add that the following commissions are charged: 5 per cent. on amounts under 1*l.*, and 2½ per cent. on amounts of 1*l.* and upwards

MESSRS. PEARS' latest magazine circular is an octavo sheet, bearing in the centre a portrait of the Prince of Wales, which is only distinctly seen when held up to the light. Above the portrait are the arms of the Prince, and the words "England's hope"; below is a clever perversion of a stock phrase—"Pears' soap is England's soap."

THE HALF-PRICE POSTAGE CLOSED LETTER COMPANY (LIMITED), 85 Gracechurch Street, E.C., invite chemists to become their agents. They make it possible to sell retail a four-page sheet of note paper attached to a sheet of advertisements folding up into a neatly formed letter bearing a penny stamp, all for a halfpenny. Chemists ought to make some business out of this.

MR. JAMES TOWNSEND, of Exeter, sends us samples of four styles of almanacs for 1889, got up expressly for circulation by chemists. Two are octavo almanacs—one of 16 pages, and one of 32 pages; a third is a "bouquet almanac," and the fourth a "purse almanac," both produced in fancy style. The literary matter in all these seems to have been well selected, and a liberal share of space is left in each for the insertion of the chemist's special matter.

AN exceptionally artistic and elegantly-printed catalogue of soda-water plant and appliances has just been issued by Messrs. Bratby & Hinchliffe, of Manchester and London. Apart from being one of the handsomest examples of English typography which we have seen for some time, the catalogue contains a great deal of information which is specially valuable to those beginning the aërated-water business, and we doubt not that those who have experience in this line will get some wrinkles from the catalogue. The illustrations are numerous and artistic, and the binding excellent.

MESSRS. BURROUGHS, WELLCOME & CO. are now putting up double quantity of saccharin tabloids at old prices. That is, they now give 200 in a 2*s.* 6*d.* bottle, 60 in a 1*s.* bottle, and 25 in a 6*d.* bottle. They will give any chemist new bottles in exchange for old ones. The firm tell us that the artistic souvenirs of the Glasgow Exhibition, which they recently produced in connection with the meeting of the British Medical Association, were all applied for; but that they have now turned out a second edition, and they will be glad to send one for enclosure to any city house for any chemist who applies for one.

THE *Evening Post* complains that some unprincipled person has been sending to that journal and to other London papers fabricated reports of accidents and misadventures, in which mention has invariably been made of a certain "Fluid" known in the drug market, apparently in order to obtain gratuitous advertisements. The editor has shown us several of these bogus reports. They all mention *Condy's Fluid.* The reporter does not call for payment. His concoctions, it appears, have been printed in some of the daily papers. One of the narratives shown us reported a collision in the Thames, Condy's Fluid forming the cargo of a barge which was sunk; another recounted a history of a bite by a mad dog, and how, Condy's Fluid being applied, a perfect cure resulted. The proprietors of the Fluid will no doubt be glad to contradict the idea which has got about concerning them in Fleet Street.

Personalities.

MR. THOMAS LAKEMAN, of Sydney, who has been spending the summer in England, left this week for Australia, travelling *viâ* the United States.

MR. HARRISON, of Barnsbury, has purchased the business at Ashwell, Hertfordshire. Mr. Baker, of Stockbridge Terrace, effected the sale and arranged the transfer.

MR. ALFRED H ALLEN, the well-known analytical chemist of Sheffield, and President of the Society of Public Analysts, has opened an office and laboratories in Leadenhall House, 101 Leadenhall Street. Mr. Allen proposes to be in personal attendance at his London office on Mondays and Tuesdays of each week; his senior assistant, Mr. William Chattaway, F.I.C., is to permanently reside here.

THE BENTLEY TESTIMONIAL.—We are informed that the presentation of a portrait of Professor Bentley to the Pharmaceutical Society of Great Britain, and of a purse to the professor, will be made on Wednesday next, October 3, at the close of the evening meeting to be held in the lecture theatre at 17 Bloomsbury Square, at 8 P.M. on the above-mentioned date.

MARRIAGE.

[*Notices of Marriages and Deaths are inserted free if sent with proper authentication.*]

MORGAN—FOWLIE.—At 4 High Street, Turriff, on September 18, by the Rev. Robert McDerment, Monquhitter, Alexander Morgan, Stonehaven, to Helen, eldest daughter of George Fowlie, chemist.

DEATHS.

BOLAS.—On September 22, Isabella, the beloved wife of Arthur Bolas, chemist, of 111 Icknield Street, and daughter of the late Joseph Best, of Bilston.

FERGUSON.—On August 30, by drowning, near Hastings, Mr. William Harry Ferguson, formerly of Chancery Lane, pharmaceutical chemist. Aged 32.

FOX.—On September 19, at Old Charlton, Kent, Mr. George Clement Fox, chemist and druggist. Aged 41 years.

HAAXMAN.—On September 16, Mr. P. J. Haaxman, one of the leading Dutch pharmacists, died at Rotterdam, where he was in business as an apotheker, at the age of 78. Mr. Haaxman was the author of a large number of pharmaceutical papers and treatises, and for a number of years he edited the *Dutch Journal of Scientific Pharmacy.* The deceased had been a member of numerous commissions in connection with pharmaceutical legislation in Holland, and rendered conspicuous service to pharmacy as a member of the commission for the "Pharmacopœia Neerlandica," ed. ii. In 1883 he celebrated the fiftieth anniversary of his membership of the pharmaceutical profession.

JOHNSON.—On September 4, at Wilford Road, Nottingham, Mr. Frederick Johnson, chemist and druggist. Aged 52.

STONE.—On September 20, at Exeter, Mr. Frederick William Stone, chemist and druggist. Aged 52.

BANKRUPTCY REPORTS.

C. W. JOHNSON, 30 Mark Lane, and at Rainham, Essex, Chemical Manure Manufacturer.

THIS debtor (trading as Miller & Johnson) filed his petition at the London Bankruptcy Court on Tuesday last, and on the application of Messrs. Sole, Turner & Knight, solicitors to the debtor, Mr. Registrar Brougham made a receiving order. The liabilities are stated to amount to about 18,500*l.*, and assets consist of goods valued at from 1,200*l.* to 1,400*l.*, book debts amounting to about 1,000*l.*, and machinery valued at several thousand pounds.

HENRY FREDERICK COX, 7 Chicksand Street, Whitechapel, Chemical Manufacturer.

THIS debtor (trading at the above address under the firm of H. F. Cox & Co, and residing at Wenonah, Thornton Heath), had a receiving order made against his estate on August 17. A summary of his accounts has now been issued, together with the observations of the Official Receiver. It appears that the total liabilities amount to 7,607*l.* 2*s.* 8*d.* Of this amount, 2,573*l.* 14*s.* 8*d.* is due to unsecured creditors; a further sum of 5,000*l.* to fully secured creditors, who hold securities estimated at 6,500*l.*; and the remaining 33*l.* 8*s.* is due to creditors for rent, rates, and wages. The assets are returned at 3,208*l.* 8*s.* 2*d.*, and consist of cash, 52*l.* 14*s.* 10*d.*; stock-in-trade, estimated to produce 450*l.*; plant, tools, machinery, trade fixtures, fittings, utensils, &c., expected to realise 522*l.* 5*s.*; office furniture, valued at 25*l.* 18*s.*; household furniture, valued at 298*l.* 10*s.*; other property, returned at 60*l.* 6*s.* 4*d.*; good book-debts, amounting to 288*l.* 7*s.* 6*d.*; doubtful and bad book-debts of 264*l.* 5*s.* 10*d.*, estimated to produce 10*l.* 6*s.* 6*d.*; and the estimated surplus from the securities held by the fully secured creditors, 1,500*l.* The accounts therefore show a surplus of 601*l.* 5*s.* 6*d.* According to the Official Receiver's observations, the debtor states that in July, 1877, with a capital of 4,000*l.*, he purchased the business of Cox, Gould & Co., of which firm his father was until then a partner; that he (the debtor) then entered into partnership with Mr. Poulson, and traded as Cox, Poulson & Co., until April, 1884, when the partnership was dissolved, and there are no debts outstanding in respect thereof; that he subsequently continued the business alone, with the assistance of moneys advanced by his father from time to time, amounting to about 4,000*l.* He attributes his failure to want of available working capital, owing to losses in trade, and to his having to arrange, in consequence of the death of his father in 1885, for the repayment of the moneys advanced by him. The debtor has kept the usual books for his trading, which, however, have not been properly balanced since June 30, 1885, at which date there was an apparent surplus of 542*l.* 10*s.* 11*d.* He now explains that the stock at that date was over-estimated by 494*l.*, thus reducing the surplus to 48*l.* 10*s.* 11*d*, and states that he has made a net profit on trading since then of 733*l.* 12*s.* 3*d.*; received 500*l.* under his father's will and mother's marriage settlement; and estimates the value of property acquired by him since June, 1885, and now held by the fully secured creditors, at 6,500*l.* Further, that since June, 1885, he has lost 1,250*l.* on contracts; expended 590*l.* in legal expenses, fees, commission, and insurance premiums; incurred bad debts amounting to 253*l.* 19*s.* 4*d.*; drawn 3,864*l.* 16*s.* 10*d.* for household and personal expenses, and estimates the depreciation in the stock, plant, machinery, lease, &c, as estimated for realisation, at 1,222*l.* 1*s.* 6*d.* The claim of the creditors treated as fully secured (5,000*l*) represents money advanced in July last, of which 3,700*l.* is stated to have been paid to the executors of his father's will, and 1,300*l.* in payment of pressing creditors and business expenses. The security held is stated by the debtor to be a mortgage on his life annuity of 500*l.* per annum under the will of his late father, and on the debtor's share of certain funds invested in ground-rents under his mother's marriage settlement. The Official Receiver reports that the value placed by the debtor upon the above-mentioned security may be considered reasonable and likely to be realised; also that the stock and trade effects have been valued at 704*l.* 7*s.*, and the household furniture (less articles claimed) at 298*l.* 10*s.* The first meeting of creditors is fixed for September 28, and the public examination of the debtor for October 23 next.

JOHN GLEDHILL, 90 Gibbett Street, Halifax, Wholesale Druggist.

THE first meeting of creditors under this failure was held at the office of the Official Receiver, Crossley Street, Halifax, on September 25. Mr. England, Official Receiver, presided, and submitted a summary of the debtor's statement of affairs, which showed gross liabilities, 1,008*l.* 8*s.* 2*d.*, of which 908*l.* 8*s.* 2*d.* is expected to rank for dividend. The assets, after paying 20*l.* 9*s.* 6*d.*, due to preferential creditors for rent, rates, taxes, and wages, are estimated to produce 188*l.* 5*s.* 11*d.* The cause of failure is attributed to want of capital, law costs, over stocking, bad debts, and loss by fires. The Official Receiver, in his observations, states that the debtor commenced the retail business in August, 1880. For some time he had been endeavouring to make a wholesale trade, and this was the chief cause of his failure. The debtor borrowed the money with which to purchase the business. The bankrupt alleged that he only became aware of his insolvency about three months ago, but he must have been hopelessly insolvent for a longer period. There was an excess of assets over liabilities in May, but it should also be noticed that certain liabilities, amounting to 326*l.* 18*s*, were omitted in taking stock, and that no provision had been made for the law costs which he had paid. The bankrupt having no offer to make, the winding-up of the estate was left in the hands of the Official Receiver.

The unsecured creditors are as follows:—

	£	s.	d.
Wilson, J., Halifax	80	0	0
Fielding & Co., Sowerby	24	12	2
Union Loan Company, Stockport	52	0	0
Wyleys & Co., Coventry	30	0	0
Cocker, W., Halifax	27	0	0
Oldfield, Pattinson & Co., Manchester	24	0	0
Mackey & Co., London	20	6	0
Gledhill, —, Halifax	21	8	5
Sutcliffe, J., Hebden Bridge	30	0	0
Hirst, Brooke & Hirst, Leeds	20	15	9
Kerr, R. M. & J., Halifax	71	19	0
Jackson, W. & H., Liverpool	18	12	8
Sumner & Co., Liverpool	17	1	6
Ayrton & Saunders, Liverpool	16	1	7
Ripley, R., Liverpool	14	8	4
Blakey & Sons, Halifax	12	6	0
Gledhill, —, Crawley	12	0	0
Gledhill, Mrs., Halifax	10	0	0
Whitehouse, Mrs., Halifax	20	0	0
Kilner Brothers, Thornhill Lees	12	17	7

NEW COMPANIES.

H. SCHWEITZER & COMPANY (LIMITED).—Registered on September 18. Capital 40,000*l.*, in 10*l.* shares. Object, to take over the business of H. Schweitzer & Co., cocoa merchants. The following are the first subscribers:—Miss A. P. Symonds, Waterloo House, Weymouth; Miss J. Symonds, Waterloo House, Weymouth; Major-General F. E. Cox, Ealing; Major-General J. C. Symonds, Jersey; W. H. Simpson, 6 Moorgate Street, solicitor; F. G. Shute Price, Jersey; Mrs. J. Symonds, 17 Gloucester Place, W. The first directors are to be Major-General F. E. Cox; Francis Miller, 13 Sherborne Lane; and J. A. Hallett, 7 St. Martin's Place, W.C.; remuneration, 100*l.* per annum each, and 1*l.* 1*s.* each for every attendance at a board, provided such attendance fees do not exceed 100*l.* per annum. The board will also be entitled to a commission of 5 per cent. on the amount of annual profits distributed as dividend in excess of 7,500*l.*

DAN RYLANDS (LIMITED).—Registered on September 14. Capital 130,000*l.*, divided into 14,000 preference shares and 12,000 ordinary shares of 5*l.* each. The preference shares are to confer a right to a fixed cumulative preferential dividend of 7 per cent. The company proposes to acquire the business carried on by Dan Rylands, at Stairfoot, near Barnsley, at Wombwell near Barnsley, and at Blake Street, Manchester, of wire-twisting and mineral-water machinery

manufacturers. The first subscribers (who take twenty-five shares each) are:—Thomas Dymond, J.P., Burntwood Hall, Barnsley; James McEwen, 11 Rushton Street, Hulme, Manchester, engineer; William T. Howroyd, Prospect Cottage, Dewsbury, chemical manufacturer; Thomas Thompson, Stairfoot, near Barnsley, grocer; William E. Inman, Union Street, South Halifax, mineral-water manufacturer; John Organ, Stairfoot, near Barnsley, cashier; Richard Potter, Stairfoot, near Barnsley, engineer; Benjamin Stoner, Stairfoot, near Barnsley, engineer.

CHANCE BROTHERS & COMPANY (LIMITED).—Registered on September 17. Capital 240,000*l.* in shares of 100*l.* each. The company take over from Messrs. Chance Brothers & Co. their business manufactories and works at West Smethwick, Stafford, and Finsbury Circus, London, as manufacturers and buyers and sellers of crown sheet, plate, rough-rolled plate, and optical glass, &c., and the goodwill thereof. The first subscribers are:—R. L. Chance, Chad Hill, Edgbaston; John H. Chance, 40 Augustus Road, Edgbaston; H. Chance, Thornbridge, Leamington; George F. Chance, 12 Hagley Road, Edgbaston; J. F. Chance, 51 Princes Gate, London, S.W.; K. A. Macaulay, 21 Beeches Road, West Bromwich; Arthur L. Chance, Great Alm Hall, Alcester; Edward F. Chance, The Grange, Clent, near Stourbridge. The first chairman is Mr. John Homer Chance.

CALATINITE COMPANY (LIMITED).—Registered on Sept. 18 Capital 2,100*l.* in 2*l.* shares. The company is formed to acquire the patent No. 4,070, granted to Edward Arthur and E. M. Arthur, for an improved process for obtaining crystallised sulphate of calcium. The subscribers are:—W. C. Hiskins, Bristol, soap manufacturer; H. J. White, Bristol, wine merchant; J. Ross, Clifton, Bristol, commercial traveller; T. Elliott, Clifton, Bristol, broker; J. H. Beale, Clifton, Bristol, commercial traveller; E. Arthur, Saltford, Bristol, colour merchant; E. Mortimer Arthur, Clifton, Bristol, analytical chemist, T. Naish, Wells Road, Bristol, commercial traveller.

Gazette.

PARTNERSHIPS DISSOLVED.

Botwood, C. W., & Wall, E. J., under the styles of Denzil Thomson & Co. and Botwood & Co., Queen's Crescent, Haverstock Hill, and under the style of Botwood & Wall, at Gravesend, chemists and druggists.

Brazier & Coventry, New Brighton and Wavertree, mineral water manufacturers.

Elott, J., Elliott, A. R., Clarke, W., & Elliott, J. (under the style of the Prospect Aërated Water Company), New Swindon, aërated water manufacturers.

THE BANKRUPTCY ACT, 1883.

RECEIVING ORDERS.

Fleming, Alfred William, Southborough, Tonbridge, Kent, out of business, late mineral water manufacturer and coal merchant.

Glyne, Charles Glynn, Dewsbury, chemist and druggist.

Johnson, Charles William (trading as Miller & Johnson), Mark Lane, City, Rainham, Essex, and Cheshunt, Hertfordshire, chemical manure manufacturer.

FIRST MEETINGS AND PUBLIC EXAMINATIONS.

Cox, Henry Frederick (trading as H. F. Cox & Co.), Thornton Heath, and Chicksand Street, Whitechapel, chemical manufacturer—September 28, Bankruptcy Buildings, Portugal Street, Lincoln's Inn Fields; October 23, 34 Lincoln's Inn Fields.

Glyne, Charles Glynn, Dewsbury, chemist and druggist—October 2, Official Receiver's offices, Batley; October 9, County Court House, Dewsbury.

ADJUDICATION.

Shaw, David (trading as the Worcester Mineral Waters Company), Worcester, aërated waters manufacturer.

APPLICATIONS FOR DEBTORS' DISCHARGE.

Clarting, John Revett, Thetford, Norfolk, surgeon and apothecary—October 24, Shire Hall, Norwich Castle.

Leslie, Joseph Blackburn (trading as J. B. Leslie & Co.), Sheffield, chemist and druggist—October 25, County Court Hall, Sheffield.

AT THE COUNTER.

TWO Girls: "Please, sir, do you keep Excursion Pills?" Chemist (equal to the occasion): "Yes, we have some very fast ones!"

FROM Dumfries: "Sliperalem bark;" "Brass of Clint;" "Worm powder for a grown up person age 9;" "Ecku peck you any wine fore a vomat fore a babey."

"PENN'ORTH of salvation ink." "What's it for?" "Bad eyes." Sulphate of zinc supplied.

IT was an American chemist who received an order for "ipecac enough to throw up a four-year old girl.

THE bad handwriting of German medical men is a never-failing source for "jokes" in the comic papers of the Fatherland. Thus, the *Fliegende Blätter*, in a recent issue, introduce "Dr. Med. Scrawler," whose prescriptions can only be deciphered by placing them on the stomach of a medium before dispensing.

KNEW IT TOO WELL.—"Have you something in the shape of a tonic and strengthener?" inquired a tired-looking man stepping into a drug store. "I've been riding all night on the cars, and I've got to brace up for a day's running around the city." "Yes, sir," said the clerk, briskly, producing a bottle of patent medicine, "there's nothing better than this —'Dr. McSlim's Invigorator'—50 cents a bottle." "Thunder!" exclaimed the jaded-looking man, with extreme disgust. "I am the manufacturer of that stuff."

FROM Cardiff.—Small boy (ætat. 6): "Please Mr. ——, mother says, will you give her a bit of cord to tie up a parson."

FROM York: The other day the probably rare spectacle occurred at my counter, where four ladies, representing four generations, presented themselves to make purchases for and on account of themselves, the most elderly lady for a mixture for internal disturbances, the youngest for a teat, the "middlemen" negotiating the sales.

TETRA GAJUICIA.

PAINLESS TEETH EXTRACTION.—Dentist (kindly): "Now, does that hurt?" Patient: "I don't mind your working on the tooth so much, but if you will take your sleeve-button out of my right eye, and your beard out of my left, I shall be obliged."

A CUSTOMER of ours who suffers from what he is pleased to call "acidity" has been for some time under the treatment of his ordinary medical attendant, Dr. A. (who, being one of the old school, always writes a prescription with some seven or eight ingredients). Not deriving much benefit, he calls on a specialist, Dr. B, who writes him a prescription with only three ingredients, which he brings in disgust to be made up, stating, "I don't think much of Dr. B, he isn't half so clever as Dr. A. Why, he's only given me three things."

BLUE BONNET.

JUDGED by the following incidents which occurred in the shop of a South Wales chemist, some of our brethren certainly do not keep "abreast of the times." A visitor inquired for some boracic acid. "Boracic acid! There's no such thing, sir. I've been in business twenty years, and I've never heard of it." The second case, if anything, displayed a still more blissful ignorance. A chemist on his holidays went in for some cocaine, and was asked, "Who was the maker." His querist then looked through Newbery's list for it.

BLUE BONNET.

TRADE-MARKS APPLIED FOR.

THE *Trade Marks Journal* publishes the following notice:—"Any person who has good grounds for objection to the registration of any of the following marks may, within two months of the date of this journal, give notice in duplicate at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1883, of opposition to such registration." The address of the Patent Office is Southampton Buildings, London, W.C.

From the "Trade Marks Journal," September 5, 1888.

"BILLINGTON'S LUNG BALSAM," other wording and portrait on label; for balsam for use in pharmacy. By F. Billington, 103 Sheffield Road, Barnsley. 74,636.

Signature of depositor; for aërated waters. By R. Reavly, 3 Albert Road, Jarrow-on-Tyne. 76,153.

"HEARDER'S OPIATE CORN AND BUNION PLASTERS"; for the same. By Riches and Tomlin, 1 Victoria Parade, Torquay. 76,367.

Picture of a house (The Watling Well); for aërated waters. By F. Montgomery, Towcester. 76,415.

Medallion bearing the head of Æsculapius and his staff, figure of Æsculapius, and "Æsculap, a tasteless aperient," with device on label; for medicine for human use and mineral waters. By The Æsculap Bitter Water Company (Limited), 38 Snow Hill, E.C. 76,451–56. (Five designs in all.)

Picture of a town on label; for chemical substances, Class 1. By Farbridge, Holliday & Co., 57 King Street, Manchester. 76,682.

"GRIFFITH'S ESSENCE FOR DEAFNESS"; for the same. By C. Griffith, 17 High Street, Canterbury. 77,440.

"SUCCESS" (repeated) and device for furniture polish. By Georgina Robinson, 22 Lansdowne Gardens, South Lambeth, S.W. 77,616.

"MATTERSON'S DAY AND NIGHT CO-OPERATIVE DRUG STORE," with solar and lunar devices, on label; for chemical substances, Class 3. J. K. Matterson, 24 New Oxford Street, W.C. 77,881.

From the "Trade Marks Journal," September 12, 1888.

"MELTON MOWBRAY VETERINARY MEDICINES" in band around hunting sketch; for chemical substances and liquids for veterinary purposes. By H. J. Goodall, V.S., Melton Mowbray. 72,691.

"GEORGE CHEAVIN'S NEW PATENT REMOVABLE-PLATE WATER FILTER"; for filters. By George Cheavin, Boston. 72,906.

"W. BISCOMBE, PLYMOUTH," and monogram, on shield-shaped label; for seltzer and other aërated waters. By W. Biscombe, 15 Green Street, Plymouth. 73,717.

"P. & A." as monogram on round label; for mineral and aërated waters. By G. Whitehead, trading as Phillips & Allen, English Street, Carlisle. 74,520.

Figure of a floral bouquet; for mineral and aërated waters. By Wood, Sons & Co., Bedlington Furnace, Northumberland. 74,970.

"THE LACTEAL BATH," and other wording, on a label with same repeated in Portuguese, Spanish, and German; for a preparation for toilet purposes. By E A. Plomdeur, 17 Rue d'Hauteville, Paris. 74,995.

"I X" within diamond-shaped border; for mineral waters. By Charles Gibbings, 136 Union Street, Borough, S.E. 75,227.

"KURUR OILS" on figure of a lamp; for medicinal oils. By E. D. Matthews, 80 Bishopsgate Street Within, E.C. 75,992.

"AËRATED WATERS, MANUFACTURED BY MILLIN & RANKIN," and other wording, on label; for mineral and aërated waters. By Millin & Rankin, McAuley Street, Belfast. 76,711.

"HODGES' LAUNDRY BLUE," and monogram; for laundry blue. By G. Hodges and W. T. Foxen, trading as G. Hodges, 38 Grace Street, Bromley-by-Bow, E. 76,807.

"BRITISH HYGIENIC SOCIETY'S DUBBING," and fancy yachting sketch; for dubbing. By M. Leon, trading as the British Hygienic Society, Warwick House, Brondesbury. 76,848.

Name (in script) and address of depositor; for mineral and aërated waters. By A. Tront, 29 Market Street, Stonehouse. 77,091.

"PROPERT'S NON-MERCURIAL PLATE-POWDER," and other wording, on label; for plate-powder. By B. Beddow & Sons, 142 Battersea Park Road, S.W. 77,137.

"ANTECZEMA" on picture-like label; for preparations for veterinary and sanitary purposes. By F. A. Hodgson, Abbermow Cottage, Hatton Road, Cheshunt. 77,178.

"DRINKWATER'S IMPERIAL LINIMENT"; for liniment for veterinary purposes. By J. D. Ghosley, trading as John Drinkwater, 55 Shepherd's Bush Road, W. 77,222.

"LETHE" (in script); for a patent medicine. By F. R. Glenny, trading as William Wright & Co., 77 Alexander Street, Upper Holloway, N. 77,292.

"HAY'S SOLUBLE ESSENCES"; for essences used as food. By W. Hay, Regent's Terrace, Hull. 77,423.

"FLOURINE"; for lard, butter, margarine, and lard substitutes. By E. Duerden & Son, 9 Oral Street, Liverpool. 77,436.

"LEON'S ALMOND POPOLINE COSMETIQUE"; for a pharmaceutical cosmetic. By M. Leon (address as above). 77,514.

"BECKTON," on figure of a balloon; for chemical substances (Class 1). By the Gas Light and Coke Company, Beckton, E. 77,649.

Designation of depositor and monogram, on round label; for mineral and aërated waters. By T. Elliot (Limited), 231 Bute Road, Cardiff. 78,014.

Figure of a tortoise; for chemical substances (Class 1). By Matthews, Maclay & Mason, 104 Hyde Park Street, Glasgow. 78,081.

"LESLIE'S PLIABLE PATENT TAPE PLAISTER," on round label; for plaisters. By Leslie & Co. (Limited), Bond Court House, Walbrook. 78,206.

"HALL'S BOURNEMOUTH PINE CRYSTALS." By W. Gilbert and J. T. Hall (trading as Gilbert & Hall), 15 Commercial Road, Bournemouth. 78,210.

From the "Trade Marks Journal," September 19.

"REGAL TOOTH-POWDER"; for tooth-powder. By Miles & Ingleton, 16 Stockwell Street, Greenwich. 66,047.

"MOTO," "MOTIO," and "VEGETABLE MOTO," each with signature of the depositor; for medicinal preparations. By J. C. Eno, Pomeroy Street, New Cross Road, S.E. 67,114–6.

Figures of a salt roller, and horse and cow licking similar rollers, with wording; for cattle medicine. By T. V. Riordan, 441 Strand, W. 67,507.

"ALBUCAR"; for toilet requisites, chemical substances (Classes I. and III.), stationary, and common soap. By A. B. Warhurst, Urmston, Lancs. 69,773, 70,451; 53–55.

"MAZAPER"; for perfumery. By Mnatzakah Hakoumoff, 3 Clarendon Road, Notting Hill. 73,886.

Initials of depositor as monogram within circle; for mineral and aërated waters. By R. J. Thurlow, 7 Flass Street, Durham. 74,067.

Signature of depositor; for mineral and aërated waters. By S. Vincent, Laygate Mill, South Shields. 74,598.

"BLOOD PURIFIER," on scroll with figure of leaves and flowers; for patent medicines. By B. E. Needham, Alban House, Newmilns, Ayrshire. 74,837.

"YZANTHIE"; for chemical substances, Class 3. By the Antipyle Company, St. Nicholas Street, Colchester. 75,582.

HINDOO TONIC BITTERS," and figure on label; for a medicinal preparation. By W. Inman & Co. (Limited), druggists, Shandwick Place, Edinburgh. 75,662.

esignation of depositors and figure of a lighthouse on an oval label; for mineral and aërated waters. By Holt Brothers, Burnham, Somerset. 75,950.

vo labels (being part of a series) for "Double Soda Water" and "Kali, or Potass Water," distinguishing features being the heavy black margins on top and bottom, and signature of depositors; for mineral waters. By O'Brien & Co., Henry Place, Dublin. 76,562.

gnre of two swords crossed; for perfumery. By D. C. Keeling & Co., Blundell Street, Liverpool. 76,825.

'SACCHARINE" and "Saccharina," each with signature of depositor; for substances used as food. By R. McVitie, Queensferry Street, Edinburgh. 76,894–5.

'VINOLIA"; for perfumery. By Blondeau & Co., 76 New Bond Street, W. 76,915.

'W. H. NEWTON'S ECZOLINE," and other wording, on round label; for ointment. By W. H. Newton, 43 King William Street, Greenwich. 77,165.

'ESPERANZA"; for powders for gout. By Elizabeth Douse, Turley, Bradford-on-Avon, and Marion S. Wallis, Alfriston, Polegate, Sussex. 77,443.

'FISH'S PARAFFIN SOAP," on label for same. By Wm. Fish (trading as Blackburn & Fish), 10 New Market Street, Blackburn. 77,738.

'ROBERT FOOTE'S GENUINE DRY RASPBERRY BEVERAGE,' on fancy label; for an aërated beverage. By R. Foote, 40 Brownlow Street, Liverpool. 77,922.

'NORTH ONE GUINEA EACH," in fancy letters, with figure of George III. guinea; for medicated lozenges. By W. May and W. Y. Harvey (trading as Dr. Geo. Ellis), 45 Fulham Park Gardens, S.W. 77,959.

'CROSIER BRAND," and figure of two crooks, on shield-shaped label; for chemical substances (Classes 2 and 3). By W. J. Crook, 35 Eastcheap, E.C. 77,995·6.

'DISCOID" over "DISCOIDS," and name and address of depositor; for compressed drugs. By J. Baily, pharmacist, Margate. 78,017.

'NITRALEINE," and signature of depositors; for an antiseptic. By W. G. Harrison & Co, 38 Fox Street, Liverpool. 78,036.

'IF YOU WISH TO BE AS WISE AS I AM," over figure of an owl; for perfumery. By Boulton, Coupe & Co., Oldham. 78,083.

'DOIG'S 'SEPTICIDE' REMEDIES"; for medicines. By Alexr. Doig, 10 Brownswood Park, N. 78,121.

'ALBANY" and monogram, within diamond label; for baking powder and egg powder. By Smith & Sons, wholesale druggists, Norwich. 78,123.

Signature and monogram of depositors; for mineral and aërated waters. By Haigh & Howard, Brookbottom, Mossley. 78,146.

'EUREKA"; for a medicine. By John Pettet, 50 Upper North Street, Poplar, E. 78,165.

'INJECTION DAY" and monogram on triangular label; for a preparation used as an injection. By John Munday, 1 High Street, Cardiff. 78,211.

Figure of a marigold, and designation of depositor; for mineral and aërated waters. By M. Sutheran, Hopper Street, Houghton-le-Spring, Durham. 78,228.

'THE SUDBURY AERATED WATERS COMPANY" over monogram; for mineral and aërated waters. By The Sudbury Aërated Waters Company, Sudbury. 78,319.

'DUCKETT'S INKS"; for writing inks. By J. B. Duckett, trading as Duckett & Co., 184 Shirebrook Road, Sheffield. 78,398.

Figure of a bottle and scroll, with name of the depositor; for mineral and aërated waters. By J. Johnson, Stoney Rock, Leeds. 78,556.

From the "Trade Marks Journal," September 26, 1888.

"NOMEL"; for mineral and aërated waters. By Batey & Co. (Limited), 216 Kingsland Road, E. 71,843.

"BAYAZA"; for chemical substances (class 3), and mineral and aërated waters. By Rankin & Borland, Kilmarnock. 72,199–200.

"ROUPECK"; for medicines. By F. Carew, 66 Gladstone Road, Liverpool. 72,214.

"HYXENIA"; for perfumery. By Oppenheimer Brothers & Co., Sun Street, Finsbury Square, E.C. 72,228.

"RUBRUNG"; for a medical preparation. By George Stocker, Exeter. 73,237.

Monogram upon round label, and designation of depositor; for mineral and aërated waters. By W. Davidson, Tyne Dock. 74,066.

"PORTEÑA"; for perfumery. By Zeno & Co., 16 Rathbone Place, W. 74,095.

"SEQUAH'S OIL"; for a patent medicine. By W. H. Hartley trading as the "Sequah" Medicine Firm, 46 Farringdon Street, E.C., and Sydney, N.S.W. 75,528.

"THE UNIVERSAL CLOTH CLEANER" and device; for a liquid for removing grease, &c. By the Universal Cloth Cleaner Company, 29 Williamson Street, Liverpool. 76,462.

"CLONA" and signature on label; for a medicinal preparation. By Luke Pickles, Market Place, Wokingham, 76,709.

Designation of depositor on device; for mineral and aërated waters. By Thomas Grant, Blue Town, Sheerness. 76,868.

"DRINKWATER'S IMPERIAL LINIMENT," and other wording on an illustrated label; for a veterinary liniment. By J. D. Ghosley, trading as John Drinkwater, 55 Shepherd's Bush Road, W. 77,221.

"CHAPMAN'S THYMOLINE" and figure of an owl resting on a branch; for a medicated tooth powder. By J. J. Chapman, 20 Boundary Road, St. John's Wood, N.W. 77,410.

"EBERMANN'S TOOTH POWDER" and other wording on oval label; for a tooth powder. By Dr. F. Ebermann, 416—I. Platters, Prague. 77,470. Also engraved device for preparations for the teeth. 77,471.

"HARONKO"; for perfumery. By R. Hovenden & Sons trading as Picard Frères, City Road, E.C., and elsewhere. 77,816.

"THEINE," and signature for substances used as food. By J. Adams & Co., 37 Mincing Lane, E.C. 77,954.

"ALLSWORTH'S CHILDREN'S APERIENT POWDERS," and other wording on label; for the powders. By N. Allsworth, 60 Mason's Hill, Bromley. 77,978.

"HYKUREMA"; for a pharmaceutical preparation. By C. Wheeler, 143 Hackney Road, E. 77,987.

"FEETICURA," and other wording on fancy round label, for an ointment for human use. By T. B. Linley, 28 Finsbury Circus, E.C. 78,066.

"AMERICAN FOAM SYRUP," other wording and signature; for a frothing preparation. By Stevenson & Howell, 95A Southwark Street, S.E. 78,150.

POTELINE is the name of a mixture of gelatine, glycerine, and tannin, to which sulphate of barium, or of zinc, may be added, and which may be coloured by vegetable colours. It may be kneaded while warm. When cold it may be used for numerous purposes. It can be turned, filed, bored, polished, and can be used for hermetically sealing bottles, &c. The proportion of ingredients varies according to the uses. For sealing bottles, of course, it must be used liquid. Potel, the inventor, uses it with success for preserving meat, by applying it liquid, at a temperature of 50–60 deg. C.

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[2] BRITISH MEDICAL JOURNAL, *August* 25, 1888.

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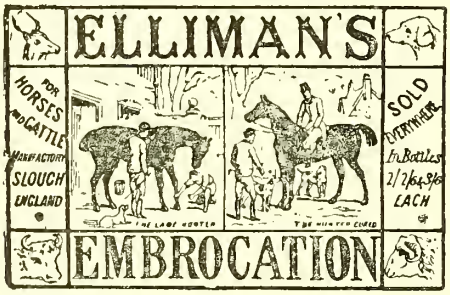

See First Page, facing cover, in the First Issue of each month, for latest particulars

To Advertisers

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EDITORIAL NOTES.

"HANDY BOOK OF MEDICINE-STAMP DUTY."

AMONG the many prayers breathed by chemists, *pro re natâ*, in reference to the Board of Inland Revenue, none has been more general or more reasonable than the old one of Job, "Oh, that mine adversary would write a book!" The adversary, we are pleased to say, has been good enough to oblige in this respect, and on Wednesday next, October 3, we shall publish at this office a "Handy Book of Medicine-Stamp Duty," from the pen of Mr. E. N. Alpe, a gentleman who is, perhaps, more intimately familiar with the intricacies of the law relating to medicine stamps, and also with the character of the complaints which many chemists think they have against that law and its administration, than any other person either at Somerset House or elsewhere.

A few years ago, at an interview between a deputation from the Chemists' Trade Association and some representatives of the Board of Inland Revenue, the latter body promised to inform chemists who should ask them whether or not any particular label or handbill would render the medicine to which it referred liable to medicine-stamp duty. This was a valuable concession, and it was one which we

know has been taken advantage of very freely. But, quite naturally, the Board have always declined to go beyond a simple "Yes" or "No" in their replies concerning labels submitted to them. To have explained why such a label renders a medicine liable, while such another very similar one does not have that effect, or to point out what alterations in the wording of labels or handbills would make them safe, was rather more than could be fairly expected from the Somerset House staff; but in the book which we are about to publish such explanations and assistance are practically offered. We should go too far if we said that this Handy Book is published "by authority"; but seeing that the Commissioners of Inland Revenue conceded to Mr. Alpe permission to write it, that Sir William Melvill, the chief of the Solicitor's Department, has accepted the dedication of it, and that Mr. Alpe himself has had such special experience in the interpretation and administration of the law about which he writes, there cannot be a reasonable doubt that the treatise, of which he is the author, will be regarded in all quarters as the expression of the official view in regard to any delicate point of meaning.

The official interpretation of the several Acts of Parliament is not, of course, inevitably the right one. It has not been infallible in the past, and may be defeated again. But an enormous majority of persons whose business is concerned will prefer to be guided by it rather than contest it even in cases where they do not agree with it; while the few who resolve to back their opinions by a law suit with such a mighty antagonist as the Board of Inland Revenue will, above all others, appreciate the advantage of a clear definition of the position to be attacked.

We consider therefore that a very useful service all round has been performed by Mr. Alpe in writing this work; it will not, at all events, be possible in future for penalised chemists to complain that they have had no opportunity of becoming acquainted with the principles on which the Board of Inland Revenue administer the Acts entrusted to them. Mr. Alpe sets down clearly and precisely the reasons on which the Board's interpretations of the Acts are based, the concessions made in many cases, and the boundaries as far as they can possibly be defined between dutiable and non-dutiable labels. He illustrates his explanations by innumerable examples from actual experience, and altogether he makes it difficult to raise questions which his treatise does not answer. We do not desire at this moment to do more than introduce his work; later on we shall refer more particularly to some of the points of interest it contains. Meanwhile we recommend its careful perusal to all those who put up proprietary medicines or who intend to do so. They may be thereby saved from much vexation and expenses, and they will certainly acquire information which should be as necessary a part of their education as any of the subjects contemplated in the Pharmaceutical Society's Curriculum.

THE DEPRECIATION OF CUPREA BARK.

THE enormous reduction in the price of cinchona bark during the last six or seven years is sufficientiy notorious, but it is not without interest to particularise the fact by one or two graphic illustrations, taken at random from recent public sales of South American bark. There are at present in the London warehouses, and probably also in other trade centres, large accumulations of Cuprea, "Soft Colombian," Pitayo, and other American barks, which have been stored there between 1880 and 1884. When these barks arrived here, the owners preferred to stock them, the market at that time being in an extremely sensitive condition, and prices generally declining though an early return of the good times was still widely anticipated, especially when it became known that one of the largest importers in London, through whose hands passed nearly all the Cuprea bark (a variety which, though in reality not belonging to the cinchonas at all, may be classed with these for practical purposes), was maturing a gigantic scheme for "cornering" the article. At that period the South American barks still gave the tone to the market, forming, in 1880, 58 per cent.; in 1881, 77 per cent.; and in 1882, 72 per cent. of our total imports; and sudden fluctuations in price were greatly assisted by the restless political state of the South American Republics and the small number of great importers on this side. An idea of the importance of the shipments of Cuprea bark may be gathered from the fact that in 1881 over 15,300,000 lbs. of this variety were exported from the port of Baranquilla alone, a quantity almost equalling that shipped from Ceylon during the season 1885-6, the most productive one on record in the island. And when, in 1884, a large London firm of importers of South American bark came to grief, their stock of Cuprea alone is said to have reached over 5,500,000 of lbs. Much of this bark, especially the parcels imported when the first-exploited woods became exhausted, is of a rather low average standard; but nevertheless these importations represent an enormous aggregate of alkaloid. For years the owners of these barks seem to have witnessed the depreciation of their stock without being able to come to the resolution to sell off as best they could, and only within the last few months have they begun to freely place their bark in auction, and thus it becomes easy to estimate with some precision the difference which their policy of waiting for the never-returning tide of prosperity has made in the balance at their bankers. Let us take two typical examples from last Tuesday's sales, and compare the offers then made with the prices which the parcels might have realised some years ago; for it is notorious that offers from five to ten times as high as are now eagerly accepted for the very same lots were at one time scornfully refused. A parcel of 146 serons of Cuprea bark, imported in April 1882, was sold this week at 3*d.* per lb. The average weight of each seron being 140 lbs, the owners obtained for their lot, roughly speaking, and not calculating allowances, discounts, &c., 255*l.* When this bark was landed, six and a half years ago, they might easily have sold the same parcel at 2*s.* 6*d.* per lb.—then an average market value of Cuprea bark—thus realising 2,550*l.* Add to this 250*l.* for six and a half years' loss of capital, warehouse charges, &c—a very moderate allowance—and one can easily imagine the feelings which the original importer (supposing the parcel to be still in his hands) must have experienced upon examining the sale account of the transaction. Another instance is that of a parcel of 116 serons of "Soft Colombian" bark, imported in March 1883, for which the owners last Tuesday refused to accept 3*d.* per lb., a decision which they may have reason to regret. When this bark was landed the price of the mark which it bears (horse's head over B) was from 3*s.* to 3*s* 3*d.* per lb., and the lot would have approximately cleared 2,400*l.* On Tuesday about 200*l.* might have been obtained for it—a price which would, perhaps, have defrayed the accumulated charges and the estimated allowance for interest, but very probably may now not again be obtainable. Well might the auctioneer, in offering some of these goods, refer to the "dreadful sacrifices" the owners were making, a remark, by the way, received with unsympathetic merriment. But it cannot be overlooked that the owners had had ample warning of the coming *debâcle*, and the general verdict will no doubt be that it served them right. In 1879 and 1880 the price of this "Soft Colombian" bark attained its zenith, from 5*s.* to 6*s.* 6*d.* per lb. being then obtainable for the best qualities;

but even in 1883, when the parcel above referred to was imported, the value was already falling at an ominous rate, and it was then well enough known to those who followed the bark market closely that in another three or four years the reign of South American barks would have altogether passed away. At present all appearances would seem to indicate that the most advisable course for the holders of the South American barks, the accumulations of which still fill room after room in the gigantic warehouses at our docks, is to liquidate their goods in the promptest possible way, and to accept the inevitable without incurring further risks for the sake of a few pounds.

THE CARBOLIC ACID RECORD.

We report this week five new cases of carbolic-acid poisoning. That has now become the weekly average. The knowledge of the ease with which it can be obtained makes it an exceptionally favourite medium for suicide, while the careless manner in which it is sent out in beer and ginger beer bottles, cups, and anything capable of holding liquid, ensures a regular supply of accidental deaths. From motives of common humanity some measure ought to be taken to check this very serious danger in our midst, and no means is so obvious or so simple as for the Privy Council and the Pharmaceutical Council between them to place the substance on the list of poisons under the Pharmacy Act. We believe the Pharmaceutical Council will be asked next week to move in this matter, and we trust they will act promptly. If the Privy Council again refuse to take action, the special attention of Parliament and the public ought to be directed to their neglect.

PRESCRIBING CHEMISTS AND MEDICAL DISPENSERS.

One of the outcomes of the recent discussion in a morning newspaper regarding "prescribing chemists" is a temperate article in the *Lancet* on "Counter-prescribing." In the course of this article our contemporary remarks, "We are not unmindful of the difficulties of the chemist's position. There can be no doubt that a large amount of counter-prescribing is almost forced upon him. He is constantly called upon at a moment's notice to administer to some petty ailment, or to refuse his help at the risk of offending a customer, without, it may be, convincing him of his own true position in the matter; and his trade also is in these days encroached upon by a legion of patent-medicine makers and store-dispensers, without mentioning those medical men who, in accordance with a still prevalent custom, dispense their own prescriptions. His temptation to retaliate, by reaping when he can in his neighbour's field, is, therefore, no light one, though this does not of course excuse its illegality. . . It has been said (though the comparison is imperfect) that the prescribing chemist is the counterpart of the dispensing practitioner, and a necessary result of the struggle to make pharmacy pay. We are told that if medical men did not dispense we should hear very little of counter-prescribing. It is more than doubtful if the evil could be completely remedied even by such an arrangement. It certainly exists in districts where dispensing practice is virtually unknown. Still, the proposal is noteworthy. It promises at least a material abatement of this ancient abuse, and it would be wise, in dealing with a matter whose adjustment must greatly depend on the co-operation of those most interested, to remove all possible obstacles to a mutual good understanding. Dispensing practitioners think that they have good reason to exercise the traditional art of the apothecary. They maintain it for the convenience of their patients, and for their own advantage, as ensuring a permanent connection with their prescriptions and with those who use them. A departure from their usual method would, they believe, imply a loss of income. These are doubtless matters of consequence to practical men. We are of opinion, however, that the change to which they demur would not, even in an economic sense, be as unprofitable as they think. The fact that practitioners in other countries not more favoured than our own are content to forego the work of dispensing is an argument in favour of this view. It is probable, therefore, that an extension of the prescriptive method would not entail such difficulties to the practitioner as some expect. If assisted by moderate charges on the part of chemists, it would not unduly tax a patient's means." That medical men have not the proper training and qualifications for dispensing is self-evident, and that they "scamp" their work is shown by the too-common practice of placing their grooms or other uneducated servants at the compounding counter. We have before us a notable example of the manner in which some medical men send out medicines to their patients. In this case "Dr. Blank, surgeon," in the Northumberland district, sent to a patient a bottle of mixture, far from elegant in appearance, and without written directions or wrapper. Along with this mixture were a dozen powders, apparently composed of rhubarb and soda; each powder was wrapped in a dirty piece of newspaper, the whole tied together with a piece of string, and the top one of the packet had the direction upon it, "one 2ce a day in a little cream before food." This direction written upon the black print is by no means easy to decipher, and the get-up of the powders as a whole is eminently discreditable to a professional man. Yet it is not a rare thing to come across such "elegant" dispensing as this; and it is, perhaps, not surprising that it is so. Doctors generally do their dispensing after they have made their round of calls; they are tired out and indisposed to bother much with the pharmaceutic art, consequently, if they have not made the acquaintance of those manufacturing houses who prepare medicines for them which only require to be bottled or boxed, the work is got through in the shortest possible time, with little regard to elegance, and often as little to accuracy. This is a condition of things which ought not to exist in medicine, and it is for that reason mainly that we urge a greater extension of the prescriptive method than exists at present. The principal objection urged by medical men in England (in Ireland and Scotland dispensing by medical men is the exception rather than the rule) against their giving up dispensing is that it would entail loss of income and loss of control over the future treatment of their patients. The *Lancet* answers the former objection sufficiently, but we may add that the loss must be comparatively trifling if the doctor's charges are moderate. Few patients require medicine daily, and if a practice is so large as to require the distribution of say a few pounds' worth of medicine weekly, that itself is a sufficient reason why the physician should not be his own dispenser; he cannot possibly do the work properly. The second objection is very trivial, for there are very few cases in which the physician is required to stop a course of treatment. People are not so fond of medicine that they will not stop taking it when they have had enough. The best proof that the magnitude, as an evil, of these objections is to a large extent imaginary is that in different parts of this country—in urban as well as in rural districts—medical practitioners and chemists co-operate successfully, the former writing prescriptions and the latter dispensing them. In return the chemist sends patients to his medical friend. The result gives mutual satisfaction. Chemists fre-

uently complain that doctors do not call upon them; that ıay be, but it is no reason why they should not call upon the octors, and those starting in business more especially should ndeavour before starting to get the support of a medical ıan. The most successful businesses in the country are ıose which are conducted by pharmacists who have secured ıe support of doctors, and that, like everything else, can only e got by trying for it.

THE AMERICAN PHARMACEUTICAL ASSOCIATION.

HIS Association held a successful meeting (its thirty-sixth) uring the first week of this month at Detroit, Michigan, ıd we are indebted to the *Pharmaceutical Era* for particurs regarding it. As in Bath, the mayor of the city elcomed the Association; thereafter the address of the tiring president, Professor J. U. Lloyd, was read, and this cupied seventy-five minutes of the time, but delighted the embers. Then followed some routine business, and at 50 A.M. on

Tuesday a "Business Meeting" was commenced. Mr. George J. Seabury, the chairman of the Nomiıtion Committee, submitted the names of the officers for xt year, Mr. Maurice William Alexander, of Missouri, being ımed as president-elect, and the Association assented. ıen Mr. Secretary Maisch, we are informed, read a congralatory cablegram from the British Pharmaceutical Conrence, lately in session at Bath, and a telegram conveying e regrets of Mr. William Saunders, a former president of e A. P. A, now absent in Victoria, was presented by ofessor Remington. The secretary was instructed make proper acknowledgment of these messages. ollowing this nearly the whole of the forenoon was ent in receiving reports, Mr. Diehl submitting an teresting report on "The Progress of Pharmacy." This port, we may explain, forms the preface to the Assoıtion's Year-Book, and the reading of it at the meeting ves the members who attend some greater interest in the lok than those who do not. The report lead to a lively scussion, the perennial topic of the relation between ysicians and pharmacists coming in for special comment. hile satisfaction was expressed at the progress of pharıcy generally, a report, which was later on submitted garding that particular section of it—the A.P.A.—was even tter. For example, since last year the membership of the sociation has increased from 1,291 to 1,364, and the Assoction is in better financial standing than at any previous ıe. The receipts during the year were $7,937.05, and the lance from the previous year $4,719.44, making a total of $2,656.49. Disbursements during the year were $10,280.42 ving on hand July 1, 1888, a cash balance of $2,376.07. e invested funds amount to $11,347.82. Minneapolis and Paul jointly, and Ashbury, N.J., New Orleans, ıd San Francisco competed for the honour of e visit of the Association next year. The last-named s recommended, and although the younger members ought that it would be an expensive trip, the city of the cific was decided upon by a large majority. The afternoon this day was devoted to "commercial" matters, amongst ich we notice a resolution to award prizes to the best ehibits in the exhibition, which was one of the great aractions of the meeting. This is another direction in ich the British Pharmaceutical Council might increase its pularity. The new "rebate" proposals and the question substitution on the part of jobbers were discussed, rebate cupying the section until midnight, by which time it had en resolved by 25 to 22 to oppose the system. Meanwhile British pharmacists at Bath were discussing various things to the accompaniment of music.

Wednesday. On this day the most serious work began, the scientific section having it all their own way. Messrs. Albert B. Prescott and Erwin E. Ewell contributed a paper on "Artificial Salicylic Acid," while papers were presented on "Calycanthus Seed," by Dr. R. G. Eccles; "The Masking of Quinine," Luther F. Stevens; "Adulterating Peppermint Oil," A. B. Stevens; "Acacia Catechu and Uncaria Gambier," Prof. Henry Trimble; "Nomenclature of Pharmaceutical Preparations," C. S. Hallberg; and "The Loco Weed," Prof. L. E. Sayre. The last named paper led to a special resolution calling upon the State of Kansas and other States to support the author in his further investigations of the loco weed. Before any other papers were read, the Association gave its council full authority to make all arrangements for the publication of a new edition of the National Formulary. Then Dr. E. Sanders read a paper on "Artificial and Natural Mineral Waters," Mr. H. W. Snow one on "Phosphomolybdic Acid for the Quantitative Estimation of Alkaloids," while "Precipitated Sulphate of Iron" was discussed by Prof. Trimble, and "Pepsin Testing" by Mr. F. A. Thompson.

Thursday. Science again had its swing, beginning this day at 9.45 A.M. The subjects were of a very varied character, such as the assay of opium; sponges; the assay of ipecacuanha; mercurous iodide; arsenic in bismuth salts; and cream of tartar, on all of which interesting papers were read, and on some of these we hope to have something more to say on another occasion. The rest of the day was occupied by the educational and legislative sections, the former discussing "The undue prominence given in pharmaceutical education to topics and facts which are of little practical importance to the student," as well as "The importance of a good English training as a part of a pharmaceutical education." These topics were discussed at considerable length and in a lively manner, so that with the other papers the time was fully occupied until 4 o'clock, when the other section met. Here the work was prospective, three hours being spent in formulating a plan for future proceedings.

Friday. This, the last day of the meeting, was devoted to business of a purely formal character. It was attempted, however, to get the question of next year's meeting re-discussed, but by 34 to 30 it was decided to leave matters as they were. For entertainments the members had the Exhibition, visits to various places of interest, and factories, and on Friday five hundred ladies and gentlemen had a trip by river, visiting Parke, Davis & Co.'s factory on the way, and in returning indulging in a banquet, which gave extreme satisfaction, and brought forth abundant flow of soul.

EUCALYPTUS AMYGDALINA.

IN May of last year Australian manufactured oil of *Eucalyptus amygdalina* leaves was the subject of a rather bitter attack by a French chemist and a well-known firm of oil distillers in Germany (Messrs. Schimmel & Co.). We then took the opportunity of controverting the statement by the latter that the oil of Australian *Eucalyptus amygdalina* is destitute of eucalyptol. In this we were supported by two well-known English chemists, and for several weeks there was a sharp passage of arms in our correspondence columns between Messrs. Schimmel and the English authorities, and it was felt generally that further investigation was required before chemists accepted an assertion which really implied that an oil which had been proved by experience to be a valuable therapeutic agent was destitute of the very princi-

ple in which its therapeutic properties reside. We are glad to notice that the matter has been taken up on the Continent by E. Gildemeister, a pupil of Wallach's, who supervised the work, so that the results may be considered to be of special value. The work has been of an exceptionally laborious nature, and is recorded in a thesis or inaugural dissertation which shows that one of the principal constituents of the oil is phellandrene, a terpene which was recognised by the formation of the nitrite ($C_{10}H_{16}N_2O_5$). Phellandrene is a dextrogyre terpene which hitherto has been found in the oils of water fennel and *Phellandrium aquaticum*, but some months ago Dr. Wallach announced its discovery in elemi and a lævogyre modification of it in the oil of *Eucalyptus amygdalina*. The peculiarity of these phellandrenes is that their nitrites have the opposite effect on polarised light to what the pure terpenes have, eucalyptus-phellandrene nitrite, for example, being dextrogyre, and the elemi-phellandrene nitrite lævogyre. The nitrite which Gildemeister formed melted at 103–104° C. He endeavoured to prove the presence in the oil of eucalyptol by the formation of the hydrochloride; the result was unsatisfactory; but the corresponding hydrobromide ($C_{10}H_{18}OHBr$) was readily obtained, thus disproving Jahns' statement that a distinguishing feature between the oils of *E. Globulus* and *E. amygdalina* is that the former yields eucalyptol hydrobromide, while the latter does not. As eucalyptol is identical with cineol and cajuputol, Gildemeister proved the identity of the first-named by submitting it to oxidation, when dibasic cineolic acid ($C_{10}H_{16}O_5$) was obtained, and this on heating gave off hydrogen and carbonic acid gas, the residue consisting of the monobasic acid $C_9H_{11}O_3$. The cineolic acid obtained from eucalyptol was found to be identical with that yielded by cineol and cajuputol, which together with the formation of the hydrobromide leaves no doubt that the oil of Australian *Eucalyptus amygdalina* contains eucalyptol in considerable proportion, and this is the conclusion to which Gildemeister arrives.

According to Voiry, who has recently been working on the oil of *E. Globulus*, eucalyptol, $C_{10}H_{18}O$, distilling at 170–175° C., constitutes about two-thirds of the oil. When purified by crystallisation at a low temperature it forms a colourless, mobile liquid, sp. gr. 0·940, solidifies at 0° and melts at 41°. It is optically inactive, and yields a hydrochloride, $2C_{10}H_{18}O,HCl$. Voiry finds that Schimmel's method for the extraction of eucalyptol from the hydrochloride does not give a pure product.

There are now produced in California immense quantities of eucalyptus oil, and the stigma which was cast by Schimmel on the Australian oil has rather assisted in giving the former a footing in the European market. The removal of the stigma is a matter for congratulation to Australian distillers, and it is to be hoped that the bogie will trouble them no longer.

The New Italian Tartaric Acid Works. We are indebted to Mr. M. Parlender, British Vice-Consul at Barletta, in Italy, for the following particulars concerning the new works for treating tartar materials now in course of erection there. The company to which the works belong is called "l'Appula," and will command a capital of 500,000 lire (20,000*l.*) in 100-lire shares. Three-fifths of this capital have already been paid up. The works are now nearly finished, and it is intended to commence operations in October next, the producing capacity of the factory being 20 cwt. of tartaric acid per day. German machinery of the newest pattern has been used in the construction of the works, and the management of the concern is also to be in German hands. Barletta is situated in the centre of the South Italian wine region, and great hopes are entertained of the success of the new undertaking, which has but few competitors in Italy at present, 1,000,000*l.* of the raw tartar materials, such as wine-lees and argols, being now exported every year to England and Germany, and manufactured into tartaric acid in those countries.

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A Protectionist Argument. One of the protectionist authorities in the American press puts "the whole case in a nutshell," as he says, by narrating the following little anecdote. A very eminent British manufacturer who is also a member of Parliament, was visiting the United States lately on business. "Give us some special orders," he said to a New York merchant. "We have not run all our looms for a long time, and if you will give us orders we will set apart certain looms for you and confine the goods to your house." "But why don't you run all your machinery?" queried the merchant. "Why, your confounded protection is our trouble," was the reply. "Then pull up your stakes and establish a factory here. America would welcome such an industry as yours," said the merchant. And the British legislator and manufacturer answered and said, "If you can guarantee that protection will remain as it is, we will move our works over here immediately." "Do," said his American interlocutor. "You in England would like to have American protection abolished; but if you were in America you would like to have it maintained." Why, of course he would. Who would not like a law which would compel everyone to buy of him at his own price? But what about the poor purchaser?

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From "Our Own Correspondent." The *Manchester Courier* is in the habit of printing reports on the German markets from a source which it describes as "Our correspondent in Berlin," and whence it often derives peculiar and exclusive information. Thus, in the issue of Sept. 25, the "Correspondent" remarks that "German aniline has also fallen considerably in value, owing to the arrival of heavy shipments from Ceylon." Let us charitably assume that the "Correspondent" had exceeded his usual allowance of *Lager* when he wrote that paragraph, and that the aniline and quinine industries had become mixed with the bark shipments in his mighty brain.

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The Weather-plant. Mr. W. Sowerby, of the Botanic Gardens Regent's Park, writes to the *Times* in reference to the "sensational story" which has been "going the rounds" about the so-called "Vienna weather-plant." This plant, he says, may be seen growing in the warmer greenhouses in the Regent's Park gardens. As to being a special indicator of change in the state of the weather, Mr. Sowerby remarks that all plants more or less indicate a change in the weather, or, more correctly speaking, the changes in the character of the habitat in which they may happen to be growing. Bright sunshine, dull and dark, dry and damp, hot and cold, are all shown by the behaviour of plants. And so our new-found weather-glass, when growing in a greenhouse in England or on the continent of Europe, would no doubt indicate changes in the state of the atmosphere inside the greenhouse, and if taken outside would also show the change. Let some lover of orchids or other tender tropical plants try the experiment by placing a pet plant out of doors on some cold night. The result will be marked, but, perhaps, not pleasing. The weather-plant was described, we may add, as *Abrus peregrinus*; Mr. Sowerby refers to the *Abrus precatorius*, and appears to assume that the plants are identical.

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Trade in Vienna. The *Times* Vienna correspondent, in a highly readable article on the reasons why Vienna is comparatively little patronised by English tourists, gives some interesting particulars of the commercial customs prevailing in the Austrian Empire. After giving a most favourable account of the attractiveness of Vienna as a city, and the good humour and politeness of its inhabitants, the correspondent presents us with a view of the other side of the picture, which is black indeed. Blackmailing, overcharging, and bribery are practised among all classes to an extent unknown in any other capital, the postman even making a fixed charge of 2 kreutzers for every foreign newspaper and 1 kreutzer for every native journal which

delivers, so that it costs over 7 florins a year in addition to the ordinary subscription to get a foreign paper in Austria. Many tradesmen charge 20 kreutzers for delivering the goods ordered by their customers. Native industry, protected by exorbitant tariffs and unstimulated by foreign competition, is bad beyond anything that foreigners can imagine. Everything is made for show, without durability, and under the apparent idea that if goods are manufactured to last too long trade will suffer. The perfumers confess that Austrian soap is worthless (it makes the water greasy), and they offer either high-priced English and French soaps or spurious imitations of them. The demand for English goods causes the trade-marks of great London and Paris firms to be pirated in the most impudent manner; but this is generally done in Germany, and the Austrians confine themselves to retailing the fraudulent wares. People who can afford it buy as much as they can from England and France, notwithstanding the heavy duties. But almost everybody tries to evade the duties, and there is a miserable amount of smuggling. So far is bribery carried that in a recent trial of a number of tradesmen accused of bribing Custom-house officials it was proved that several of the defendants had bribed only in order that they might pay no more than the lawful duties.

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Medical Intercolonial Congress. The preliminary arrangements have been completed for holding a congress of the medical profession of the Australasian colonies in Melbourne, beginning January 7 and extending over five days. The meeting will be countenanced by the Governments of the colonies, who will also contribute a sum of money to the expenses of the congress. The congress will meet in the University of Melbourne under the presidency of Dr. T. Naghten Fitzgerald, F.R.C.S.I., of that city. The following are the presidents of the sections:—Medicine: The Hon. Charles K. Mackellar, M.B., C.M., M.P. (Sydney); Surgery: Edward C. Stirling, M.A., M.D., F.R.C.S. Eng. (Adelaide); Hygiene and Forensic and State Medicine: Henry N. McLaurin, M.A., M.D. (Sydney); Anatomy and Physiology: Professor T. P. Anderson Stuart, M.D., C.M. (Sydney); Pathology: Joseph Bancroft, M.D. (Brisbane); Obstetrics and Gynæcology: Ferdinand C. Batchelor, M.D. (Dunedin); Diseases of the Eye, Ear, and Throat: Mark J. Symons, M.D., C.M. (Adelaide); Psychological Medicine: Frederick N. Manning, M.D. (Sydney); Pharmacology: Baron Sir Ferdinand von Mueller, M.D., Ph.D., K.C.M.G., F.R.S. The treasurer is Dr. George Graham, of Church Street, Richmond; and the secretary, Professor H. B. Allen, M.D., Melbourne University. It will be noticed that in the Pharmacology section only is the president a Victoria man—Baron Mueller—and his eminence as an investigator is such that all the colonies will combine in saying that no better president could have been selected. It is expected that the congress will have many papers to discuss, and, if practicable, special general meetings of the congress will be held for the discussion of subjects such as "The Climates of Australasia," "Colonial Fevers," and "Hydatid Disease." Members coming from Europe, America, or India will receive free passes over all Victorian railways; and all members of the congress will be entitled to return tickets at single fares, available for two months, over all the railways in Australia. Various shipping companies have consented to carry members of the congress at special rates for the sea passage.

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Bichromate Poisoning. Drs. Ruttan and Lafleur give some interesting notes in the *Montreal Medical Journal* on a case of fatal poisoning with bichromate of potash, the victim being a man of twenty-five years. A chemical examination of the viscera made seventy-two hours after death showed that the blood everywhere contained neutral chromates of sodium and potassium. By far the largest quantity was obtained from the veins of the portal system. The blood in the heart and great vessels also contained a very considerable amount, and chromates could be readily detected in the blood of the brain. The liver contained a larger quantity of the poison than any other organ: its tissue was readily stained a yellow colour by lead acetate, and a red colour by silver nitrate. The kidney also gave these reactions, but not so readily as the liver. On suspending a portion of the kidney for a few minutes in a dilute solution of lead acetate, the cortex was found to be most deeply stained by the chrome yellow, though all parts of the organ became decidedly tinted. The mucous membrane of the stomach was of a green colour, from the presence of reduced oxide of chromium. The blood was found to be profoundly altered in colour and consistence, and to have lost its characteristic alkaline reaction, being quite neutral to litmus. It remained undecomposed and homogeneous in loosely-corked bottles for nearly two weeks after the autopsy. It could not be ascertained how the salt was excreted by the kidneys, as the bladder contained no urine. These results show that where bichromate of potash comes in contact with the tissues it is reduced to the chromate and the green oxide. It also appears that the hæmoglobin of the blood undergoes oxidation to methæmoglobin, and the writers infer that fatal results are not only due to "irritant poisoning," but also to the blood change. In concluding their paper the writers remark that bichromate of potash is one of the commonest and most generally used salts in the market to-day, and there are no restrictions whatever on its sale. It is not even mentioned in the Poisons Act, though its fatal dose is probably less than 2 drachms. It is even sold to children to make toy batteries. The number of fatal poisoning cases from the use of this salt is increasing every year, and it is high time that vendors of the salt should at least be compelled to label it "poison."

Prospects in Chili.—The following is extracted from a letter sent from a gentleman in Chili to his brother (a chemist) in England, and kindly placed at our disposal. It must be understood that the writer is not a pharmacist:—"I fancy you could get on out here if you were to learn the language sufficiently to pass the examination. There are plenty of rising towns where drug stores would pay, and while learning the language and the customs of the country you might get a berth in one of the large stores; I believe the pay is very fair. Druggists here all seem to do pretty well; they have no rivals in the doctors. No doctor here is permitted to sell medicines, nor to keep a drug store and practise at the same time. Doctors here charge for their advice, not for drugs, which I consider the proper way. If medicine is wanted he gives you a prescription, which you can get made up where you like. If none is required so much the better; you pay the fee, and there is an end of it. You have not to be dosed with some dirty stuff just for the sake of an item in the bill. Another arrangement the drug stores have in this country seems a good one, and that is, they take turns of a week each at keeping open on the Sunday and all night through the week, so that the remainder are unmolested during that time. In the small towns one store, or 'Botica,' as it is called here, keeps open; in the large ones, one 'Botica' in each division; the change is made every Saturday. The midwives, who are all diplomaed here, have the same arrangement. It is not the custom here to call doctors (male) to confinements unless surgical aid is required. The police always have the list of Boticas and midwives for the week, so that in case of anything being wanted in a hurry at night, you ask the first one you meet for the 'Botica de la semana' (Botica of the week), and on getting there you are sure of being attended to at once. The list is always published in the local papers also. The Boticas not on duty generally close at 9 P.M., and on Sundays and feast-days (of the latter there are plenty) do not open at all. We have several lady-doctors in this country, so you see Chili marches with the age. There is not the slightest prejudice against them, nor are they looked upon as anything out of the common way. I often think of our English insular prejudices and bumptiousness. After a man has rubbed around a bit amongst foreigners it is wonderful what a lot of it gets taken out of him. He finds others of other nationalities just as good men as he, and who think just as well of their own country as the Britisher does of his, until he (the Britisher) finally comes to the conclusion that there are other countries in the world besides Great Britain."

Trade Report.

Notice to Retail Buyers:—It should be remembered that the quotations in his section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., September 27.

BUSINESS has been very quiet this week, but prices of nearly all articles in the drug and chemical trades have been fully maintained, and it is confidently anticipated that the improvement has been only temporarily arrested, and will again begin to manifest itself in a few weeks. No important drug shows any decline in value this week, although cinchona, especially towards the end of the bark sales, scarcely maintained its previous position. On the other hand, opium, castor oil, chamomiles, clove oil, and a number of American drugs, notably senega, hydrastis canadensis, and peppermint oil have advanced in price. Among chemicals, quinine is weak and cream of tartar lower. Quicksilver, iodine, and citric acid are more or less unchanged, while morphia is very firm, and tannic and gallic acids are quoted higher. Heavy chemicals are advancing all along the line; chlorate of potash, caustic soda, bleaching-powder, alum, soda crystals, soda nitrate, and ammonia sulphate being all worth more money than a week ago. Drysalteries also are generally showing an improved tendency, shellac, gambier, cochineal, and gum anime being quotably dearer, while cutch is very firm. In cloves, white pepper, and pimento a lively speculative movement is raging, and fixed oils are mostly firm or dearer.

MESSRS. FOXALL & PEACOCK, who established business a short time ago, made their *entrée* at to-day's gum sales in their new capacity. The members of the firm, upon mounting the rostrum, were received with applause, accompanied by calls for "a speech," and a surely superfluous exhortation not to do any "trotting." The audience's plaudits were much louder than their bids, and only towards the end of his catalogue did the auctioneer succeed in making his "maiden" sale, a single bag of blackish Ghatty gum, at the rate of 9*s.* per cwt. This magnificent measure of support led to the sale of a few more lots, but we are justified in wishing the brokers a more responsive audience at future sales.

THE GREAT SALT SYNDICATE.—The first meeting of the directors of the Salt Syndicate was held on Wednesday, the proceedings being private. It is understood that every Cheshire salt proprietor has given in his adhesion to the scheme, and has sold on the terms proposed—namely, two-thirds of the purchase money in cash and one-third in shares. Agreements have been entered into, and the Syndicate will take possession of the works in November. In addition to the six salt proprietors who have been placed upon the directorate, several members of different firms have been appointed managers of works. Our report on "Chemicals in the North of England" makes it plain that the alkali makers as a body are by no means persuaded of the harmlessness of the Syndicate as regards their trade.

THE NEGOTIATIONS CONCERNING THE RENEWAL OF THE GERMAN POTASH MANUFACTURERS' SYNDICATE terminated successfully in Berlin on September 21. The Syndicate has now been renewed for ten years, greatly to the disadvantage of its customers, most of whom are outside Germany, and who would have been large gainers by the murderous competition which would no doubt have ensued had the negotiations fallen through.

THE TARIFF BILL prepared by the American Republican nators as a foil to Mr. Mills's measure, which has been passed by the House of Representatives, also places most drugs and chemicals on the free list, and thus, whichever side is successful, the reduction and partial abolition of the duties on these articles seems assured in the near future.

BULLING QUININE.—A letter appeared in a financial contemporary this week on the position of quinine, in which investors are tempted by brilliant representations of the money to be made in the article. The reasons advanced by the anonymous correspondent are not likely to influence people posted in the past history of quinine; but it would be a pity if it had the effect of "landing" any of the numerous class of investors who run after supposed good things even though they know next to nothing about them. The Ceylon estimates of cultivated bark area and future exports, upon which the writer largely bases his arguments, have more than once proved unreliable; and, as a matter of fact, the compilers of these returns themselves acknowledge, in the Ceylon papers to hand by this week's mail, that they have wrongly estimated the very number of growing trees upon which the letter-writer bases his calculations. Similar innocent-looking attempts at bulling the market were made last autumn, and paraded with much show of satisfaction by speculators.

FRESH SUPPLIES OF CUPREA BARK READY FOR HARVESTING.—In the unlikely case that our bark supply from other quarters of the world should fail, or if prices should again become sufficiently remunerative, we may expect (if a German authority is to be relied upon) a renewed influx of large quantities of Cuprea bark. It has hitherto been generally believed that the reckless destruction of the Cuprea forests between 1879 and 1884 had practically exhausted these sources of supply, but we now hear that while the forests in the Lebrija and Sogamossa valleys of the Republic of Colombia were actually destroyed, other woods have escaped; and that, moreover, fresh trees have by this time grown up from the roots of the trees felled seven or eight years ago. The Cuprea roots, unlike those of the Colombian *C. Lancifolia*, are valueless for manufacturing purposes, and thus, while the *C. Lancifolia* trees have been hopelessly exterminated, the second generation of Cupreas is now again ready for the axe.

ACIDS.—*Citric* quiet at 1*s* 6½*d.* per lb. *Tartaric* dull and not quotable over 1*s.* 5*d.* for foreign, and 1*s.* 5¼*d.* for English. *Gallic* and *Tannic* acids advancing in sympathy with galls; the former is now quoted at 2*s.* 10½*d.*, the latter at 1*s.* 10*d.*

AMMONIA SALTS.—*Carbonate* is dull at 4*d.* per lb. nominally. For *Sal ammoniac* there is still a fair inquiry at the established rates of 34*s.* for first, and 32*s.* per cwt. for second quality. *Sulphate* closes firmer at 11*l.* 11*s.* 3*d.* for good grey, and 11*l.* 7*s.* 6*d.* Beckton terms, Hull, 11*l.* 10*s.*; Leith, 11*l.* 8*s.* 9*d.*

ARSENIC is again firmer at 12*l.* 10*s.* to 12*l.* 15*s.* per ton for best white, landed terms.

BLEACHING POWDER quiet, but steady at 8*l.* 5*s.* here, and 7*l.* 15*s.* on the Tyne.

BORAX very dull at unchanged rates, 30*l.* to 31*l.* from the English refiners, but down to 28*l.* 10*s.* in the second hand.

CAMPHOR.—*Crude* remains very firm, 82*s.* 6*d.* per cwt. having been paid for Japan, spot, at the end of last week. We have received 949 cases this week from Hong-Kong, per *Merionethshire.*

CASCARA SAGRADA.—There is none offering at present.

CASSIA LIGNEA.—At the end of last week our stock was returned at the enormous figure of 162,817 boxes, the increase since the beginning of the year having been 56,653 boxes, while only 19,211 boxes were taken out of the warehouse. This heavy stock has been reinforced by the arrival, per *Mabel Taylor* from Hong Kong, of 12,860 boxes cassia quill and 2,000 bales chips. Notwithstanding this unprecedented supply, there is some disposition to run up the article, and 15*s.* per cwt. is said to have been paid for broken quills, although at the auctions 14*s.* 6*d.* was accepted, and 21*s.* for whole quill.

CHAMOMILES.—*Belgian* flowers are in better demand, and the price cannot be quoted under 60*s.* per cwt. for the best quality.

CINCHONA.—The supply of cinchona bark offered at Tuesday's auctions was considerably larger than that offered at any recent public sale. It consisted of

	Packages		Packages	
Ceylon bark	2,288,	of which	1,785	were sold
East Indian bark ..	663	„	535	„
Java bark..	10	„	10	„
South American bark ..	2,649	„	726	„
Total	5,610		3,056	

The quantity actually disposed of thus actually exceeding that sold at any previous auctions this year. At the commencement prices appeared to be slightly easier, but gradually the competition became more lively, until it slackened again towards the close of the auctions. On the whole the last sale prices were almost maintained, at least no appreciable change can be reported, and the unit is generally placed at *d.* to 2¼*d.* The following are the approximate quantities purchased by the principal buyers:—

	Lbs.
Agents for Messrs. Böhringer & Sons	212,721
„ Auerbach Quinine Works	141,307
„ American and French manufacturers..	117,970
Messrs. Howards & Sons	70,448
Agents for the Brunswick Works	45,735
„ Jobst & Zimmer's Works	29,401
Mr. Thos. Whiffen	19,274
Sundry buyers	4,680
Bark unsold	394,655
Total quantity in sale	1,036,191

SOUTH AMERICAN BARK.—The heavy quantity offered was almost wholly made up of cultivated Bolivian *Calisaya* quills and *Cuprea* bark, no fewer than 1,714 packages of the latter, mostly of old import, but some of which has only recently been landed, being placed in sale. A fair proportion of this cuprea bark was sold, 1883 import—Sound, 4½*d.*; damaged, ½*d.* to 4*d.* 1882 import—Sound, 3*d.*; damaged, 1½*d.* to 2½*d.* For a parcel of new Cuprea 4*d.* was refused, 4¼*d.* per lb. being named as the price, while other parcels are held at 2½*d.* to ½*d.* per lb. Two cases very long heavy quill, catalogued as cuprea bark (imported *viâ* Hamburg), remained unsold, not even 1*d.* per lb. being obtainable. For Bolivian *Calisaya* in quills good prices were paid. A new arrival of 45 serons, all damaged, part badly, sold in one lot at 1*s.* 3*d.* per lb., the highest price paid for any lot at the auctions; for another fine lot of sound quills 1*s.* 4*d.* per lb. was refused. Other parcels sold as follows:—Very bold split quill, 1*s.*; sound silvery, rather weak, 9*d.* to 11*d.*; thin broken, 5*d.* to 7*d.*; damaged, 4*d.* to 6*d.* per lb. For a parcel of *Pitayo* bark (1880 import) of rather dubious appearance 3½*d.* was refused. An offer of 7*l.* was also declined for a parcel of *Soft Colombian* bark (1883–84 import), 3½*d.* being required for this. Of CEYLON BARK the assortment was generally better in quality than that offered at recent auctions, and the following prices were obtained:—*Officinalis*—Young to fair branch, 2*d.* to 4½*d.*; chips, ordinary weak, 2½*d.* to 3½*d.*; mixed to fair bright stem, 3½*d.* to 6½*d.*; fine bold ditto mixed with quill, 10½*d.* to 11½*d.*; shavings, ordinary dusty to fine rich, 3*d.* to 7*d.*; root, 4½*d.* to 11*d.*; renewed ditto, medium to fine, 5½*d.* to 1*s.* 1*d.* *Succirubra*—Dust, 1*d.* to 3½*d.*; branch, 1*d.* to 1½*d.*; chips, young to fair branchy, 2*d.* to 3½*d.*; stem chips, 3*d.* to 4½*d.*; shavings, ordinary weak to fairly good bold, 3½*d.* to 5½*d.*; root, poor to good, 2*d.* to 6*d.*; quill, very mixed, 5½*d.*; renewed woody and mixed to fine, 3*d.* to 9*d.* *Hybrid*, branch, 7*d.*; chips, 3½*d.* to 9½*d.*; shavings, 4*d.* to 8*d.*; root, 7½*d.*; renewed, 5½*d.* to 11½*d.*

EAST INDIAN BARK.—The assortment was a rather large one and of good average quality, the bulk selling as follows:—Original chips, mixed with quill, partly damaged, 2½*d.* to 4*d.*; the ditto, 7*d.*; renewed sound, 7½*d.* to 8*d.*; damaged, 6*d.* to 7*d.*; shavings, good bright, 4*d.* to 4½*d.*; branch, 4*d.*; and a considerable parcel of the well-known NCC brand shipped from Madras at 11*d.* to 1*s.* for fine renewed bright; and 7*d.* to 10½*d.* for smaller. *Succirubra* realised: Original chips, 7*d.*; renewed chips, quilly mixed, sound, 4½*d.*; damaged, 3*d.*; root, 3*d.* to 3½*d.*; renewed shavings, 3*d.*; natural ditto, dull, 2½*d.*; small bright quilly, 3½*d.* to 4*d.*; quill, weak to good broken renewed, 3½*d.* to 7½*d.* per lb.

OF JAVA BARK only ten packages were offered and sold at 6½*d.* per lb. for *Ledgeriana* root and chips; and 4½*d.* for long weak damaged quill. The next Amsterdam cinchona sales will be held on October 4, and include about 330,000 lbs. Java bark, of which about 275,000 lbs. are quinine manufacturers' bark, containing about 185,000 oz. sulphate of quinine, or an average of 4¼ per cent.

The following are the figures relating to the exports from Ceylon in the periods between October 1 and August 30:—1887–8, 11,040,309 lbs.; 1886–7, 13,498,880 lbs.; 1885–6, 14,577,804 lbs.

CINNAMON.—The upward movement in spices has affected this article, of which the stock is rapidly diminishing, and it is said that nearly 500 bales *Ceylon* have recently changed hands at an advance over the recent public auction rates.

CIVET is very scarce, and good qualities would bring high prices.

CLOVES.—The statistical position of this article is certainly not favourable, the figures concerning the period between the beginning of the year and September 22 being as follows:—

—	Stock		Imports		Deliveries	
	1888	1887	1888	1887	1888	1887
	Pks.	Pks.	Pks.	Pks.	Pks.	Pks.
Zanzibar ..	9,840	3,514	23,119	9,332	15,788	9,971
Amboina ..	72	512	393	188	571	848
Penang ..	488	1,094	275	682	661	277

But, in spite of this fact, the reports that this year's Zanzibar crop is a total failure seem to find increasing belief, and the price had advanced at Wednesday's auctions to 8*d.* per lb. for fair quality, and since then 8⅜*d.* to 8⅝*d.* has been paid for good to fine cloves.

COCHINEAL.—Somewhat better demand has been manifested lately, resulting in an advance of about 1*d.* per lb. all round, *Teneriffe* grey blacks being now quoted at 1*s.* 1*d.* per lb, silver at 1*s.*, and rosy black at 11½*d.* per lb.

CREAM OF TARTAR is again cheaper, first white now offering rather freely at 110*s.* per cwt.

GALLS.—Turkish galls remain firm, 60*s.* per cwt. being reported paid, and 62*s.* 6*d.* asked for good blue Bussorah.

GAMBIER.—At the end of last week *block* gambier on the spot, which is rather scarce, advanced to 26*s.*, while 36*s.* was paid for fair *cubes*, for which there is also a strong demand. During the present week the advance has continued and the article still closing with a rising tendency at 26*s.* 3*d.* spot, 26*s.* for August, 26*s.* 3*d.* for Aug.-Sept., and 24*s.* 9*d.* for Oct.-Nov. shipment. At Liverpool cubes to arrive have sold at 37*s.* per cwt.

GOLDEN SEAL ROOT dearer, and now held at 2*s.* per lb.

GUM ANIMI.—Of *Zanzibar* animi 23 packages were offered to-day and, like most other produce from that quarter, they realised an advance in price; pale weak to good bold amber sorts selling at 13*l.* to 14*l.* 10*s.*; pale small sorts at 11*l.* 2*s.* 6*d.*; small good boldish red, 9*l.* 10*s.* to 12*l.*; fine pea and bean, 8*l.* 12*s.* 6*d.*; and good siftings, 41*s.* per cwt. A small quantity of *Madagascar* brought from 7*l.* 12*s.* 6*d.* to 7*l.* 15*s.* per cwt.

GUM ARABIC.—Our stock of *Turkey* gums is becoming smaller and smaller, and very high prices are required. Of *Gehzerah* gum we have practically no stock left. At Liverpool also there is but very little available, and recent arrivals of *Brazilian* gum have been quickly taken out of the market at full rates. To-day's auctions included 2,436 packages, over three-fourths of which were imported from Bombay and Madras, the remainder being made up of 455 packages from Aden and Massowah, 38 Australian, 25 Mogadore, 13 Cape, and 7 Egyptian. There was scarcely any demand, except for lots (such as white Mogadore and fine Cape) which can be substituted for Turkey gums, and such parcels realised high prices. For *Mogadore* gum, very fine white sorts, 11*l.* 10*s.*

was paid; 9*l.* 5*s.* for rather drossy sorts, and 100*s.* for brownish lump. *Cape* sold at 132*s.* 6*d.* to 140*s.* for good pale dusty sorts, 40*s.* to 62*s.* for brown to fair yellow, and 37*s.* for grey siftings. A small parcel of dull drossy mixed, olibanum scented, *Aden* sorts fetched 117*s.* 6*d.*; *Australian*, from 42*s.* to 54*s.* for fair partly dark and dusty to good red, and down to 20*s.* for a common blocky woody lot. East Indian gums sold as follows:—Common dark *Amrad*, 43*s.*; fair ambery drop, 61*s.* to 62*s.*; good, 70*s.* to 80*s.*; fine, 112*s.* 6*d.*; fine pale, 6*l.* to 6*l.* 12*s.* 6*d.*; good *Oomra*, 80*s.*; dark, 55*s.* to 63*s.*; good siftings, 49*s.*; fine, 62*s.*; ordinary to fair *Gatti*, 41*s.* to 47*s.*; good, 48*s.*; superior, 5*l.* 2*s.* 6*d.* to 5*l.* 15*s.*; siftings, 20*s.* to 27*s.*; low down, to 10*s.*; pickings, 18*s.* to 24*s.*; good bold red *Madras*, 46*s.*; good pale, 40*s.*; low dark, 20*s*; pickings, 12*s.* to 18*s.* per cwt.

GUM ASAFŒTIDA.—A fresh arrival of 149 cases arrived early this week from Bombay per *Huzara*.

GUM COPAL rather neglected and without demand. A few lots *Manila* sold at 36*s.* to 38*s.* for partly scraped and pale small amber, and 20*s.* to 24*s.* 6*d.* for small to fair chips. A large quantity of common *New Guinea* gum was bought in.

GUM KOWRIE.—This article is in very moderate demand, and only a small proportion of the 373 packages offered at auction found buyers:—Good fair three-quarter scraped sorts, 55*s.*; fair brownish well-scraped, a little blocky, 58*s.* to 59*s.*; good selected pale amber, 6*l.* 5*s.*; fine pale, 10*l.* 17*s.* 6*d.*; good soft, 64*s.*; fair hard dark, part scraped, 45*s.*; chips, common to good, 39*s.* 6*d.* to 49*s.* 6*d.*; dust, 17*s.*

GUM OLIBANUM fairly steady, but only a small quantity of inferior quality was sold to-day; ordinary red drop at 26*s*; blocky dark sorts, 18*s.*; pickings, 14*s.* to 15*s.* per cwt.

GUM TRAGACANTH.—At last Friday's auctions 2,713 packages, including over 600 packages hog gum were offered, but met with very little demand, only about 250 packages being sold at unaltered prices, viz., good pale seconds, 7*l.* 15*s.*; ordinary yellow to good thirds, 5*l.* 10*s.* to 6*l.* 10*s.*; pink mixed, 90*s.* to 95*s.*; common to good fourths, 40*s* to 87*s.* 6*d.*; hog, 20*s.* to 30*s.* per cwt.

ISINGLASS.—At the periodical auctions held on Tuesday only 405 packages were offered, the bulk being Penang and Bombay descriptions, with a fair proportion of Brazil and Saigon. There was not very much demand, but supplies were firmly held, and what little was sold generally brought full prices, good Bombay leaf being slightly dearer, and long Saigon leaf a trifle easier. The following prices were paid:—*Brazil*—Fine lump, 3*s.* to 3*s.* 1*d.*; ordinary to fair, 1*s.* 11*d.* to 2*s.* 4*d.*; good tongue, 3*s.* 1*d*; ordinary ditto, 2*s.* 5*d.*; tongue pickings, 1*s.* 2*d.* to 1*s.* 3*d.* *West India*—Fine, 2*s.* 8*d.*; fair, 2*s.* 1*d.* *Penang* and *Saigon*, ordinary to fair brownish leaf, 2*s.* 2*d.* to 2*s.* 7*d.*; good, 2*s.* 11*d.* to 3*s.* 3*d.*; low tongue, 1*s.* 6*d.*; common to fair, 1*s.* 9*d.* to 2*s.* 4*d*; good, 3*s.* 4*d.*; medium purse, 1*s.* 4*d.* to 1*s.* 6*d.*; fair stout Saigon leaf, 4*s.* 5*d.* to 4*s.* 8*d.*; rather brownish, 4*s.* to 4*s.* 2*d.* *Bombay*—Fair gelatinous pipe, 1*s.* 7*d.* to 1*s.* 8*d.*; medium purse, 1*s.* 2*d.*; fair brownish to good bright stout leaf, 2*s.* 2*d.* to 2*s.* 8*d.*; Saigon pouches, 11½*d.* to 1*s.* 1*d.*

MERCURIALS without alteration since last week.

MORPHIA firm, but the makers still quote 4*s.* per oz.

MUSK SEED.—We hear that there has been a strong demand for this seed, and that much higher prices are now asked by some holders.

OIL (CASTOR).—Our markets are still gaining strength, and 3*d.* has been paid in Liverpool for fair *Calcutta* seconds, *Madras* being held at 2$\frac{13}{16}$*d.* per lb. Mail advices from Calcutta, dated September 1, describe the market there as decidedly firmer. Seed had advanced in price, and about 1,000 cases of oil had been taken out of the market, principally for Europe and Australia. Fine pale oil closed at 11 rupees to 11 rupees 8 annas per maund; fair seconds, at 8 rupees 4 annas per maund.

OIL (COCOANUT) remains firm, with buyers of *Mauritius* oil at 25*l.* *Ceylon* is quoted at 25*l.* to 26*l.*, according to quality and packing, and *Cochin*, ordinary to fine, at 26*l.* to 28*l.*

OIL (OLIVE).—Our market remains exceedingly firm, *Mogadore* oil being still quoted at 35*l.*, and *Sicilian* not procurable under 35*l.* 10*s.* to 36*l.* for good quality. *Spanish* oil is quite nominal at 37*l.*

OIL (PALM).—There has been a very brisk demand for this oil at Liverpool, the principal market, and at present there is very little offering, while higher prices are paid for forward delivery than on the spot. The London market closes at 23*l.* for fine *Lagos* oil, spot.

OILS (ESSENTIAL).—For *Star anise* on the spot 6*s.* 4*d.* is the nearest quotation, but we do not hear of any business at that figure. *Cassia* oil is worth about 2*s.* 9*d.* per lb. on the spot, but in this article also trade is very quiet. *Citronella* dull at ¾*d.* per oz. for native brands. Oil of *Cloves* has again advanced in sympathy with the spice, and to-day 5*s.* per lb. is quoted. *Lemongrass* rather steady at 1⅞*d.* to 1$\frac{15}{16}$*d.* per oz. There has been a further rise in the quotation for American *Peppermint* oil, and the HGH brand to-day is quoted at from 15*s.* to 16*s.* per lb. by different holders. This latter price seems rather anticipating events, for we do not hear of any actual business over 14*s.* 6*d.* per lb., but the New York quotation is said to be equal to 15*s.* 6*d.* per lb. As regards Mitcham oils, we hear that there is yet a large quantity of *Peppermint* herb to go through the stills, which are all in full activity; but another two weeks will finish off the greater portion of this season's distilling. Of *Lavender* there is still a quantity of young herb to be distilled. It is evident that there is a disposition on the part of some growers to accept a lower rate; but 40*s.* per lb. is said to have been obtained for some small parcels. On the other hand, some oil has changed hands under 30*s.* per lb. for pure oil; but business in both peppermint and lavender, unless at low rates, is almost impossible, at all events for the present, and the drug-houses generally seem disinclined to buy at any price. In *French* and *Italian* essential oils there is no alteration this week, and *Otto of Rose* is reported to be rather firmer, although the quotations have not been altered as yet.

OILS (VARIOUS).—The following are the present spot quotations:—*Cotton seed* oil firm; crude, 19*l.* 12*s.* 6*d.* to 19*l.* 15*s.*; refined, 21*l.* 15*s.* to 22*l.*; Hull crude, 18*l.* 5*s.*; refined, 20*l.* 12*s.* 6*d.* *Linseed* oil, unchanged, at 19*l.* 5*s.* to 19*l.* 7*s.* 6*d.*; Hull, 19*l.* 10*s.* to 19*l.* 15*s.* *Petroleum* dull; American, 6¾*d.* to 6⅞*d.*; Russian, 6½*d.* *Rape* oil firm; brown, 27*l.* to 27*l.* 5*s.*; refined, 28*l.* 5*s.* to 28*l.* 10*s.* *Turpentine*, American, 30*s.* 6*d.* per cwt.

OPIUM.—A good demand has set in on our market, and prices are advancing, the "bull" party having obtained the upper hand for the moment. For *Druggists'* kinds 9*s.* 6*d.* has been paid, and 10*s.* is now asked. *Persian* is reported dearer abroad. *Soft shipping* in moderate demand. The Dutch Department of the Colonies have purchased 500 cases good examined opium, of which it is said that 300 cases have been ordered of Constantinople, and 200 of Smyrna firms. These firms have already commenced to execute the orders in question, and their purchases, added to others for the Cuba and East Indian market, have imparted more firmness to the Smyrna market, and on September 15 there were no longer any sellers at the prices paid by the above-mentioned buyers. It is said that Karahissar opium is of especially poor quality this year, while on the whole there are a good many complaints of the general inferiority of this season's crop. Thus, it is said that on an average only about one-third of the contents of each basket is up to the standard, while out of one lot of 11 baskets of tale-quale Karahissar the public examiner only passed 5½ baskets, and even these did not exceed 9 per cent. of morphia.

The arrivals of new opium from the beginning of the season up to September 14 were:—

—	1888	1887	1886
Smyrna .. Baskets	2,530	309	2,640
Constantinople „	1,694	322	1,118
Salonica .. „	459	390	400
Total .. Baskets	4,683	1,021	4,158

PIMENTO.—In this branch of the spice trade there are persistent reports that no crop to speak of can be expected from Jamaica this year, owing to the drought which has pre-

vailed in the island. Though our stock has shrunk a little lately, we still hold 34,848 bags in first hand, sufficient to provide for any emergency; but the price, even although it has now advanced to 3¼*d.* per lb., is so low that there is plenty of room for improvement.

POTASH SALTS.—*Bichromate* has not altered in price, 4½*d.* being still the quotation, but very large transactions on the spot, as well as for delivery next year, are reported in *Chlorate*, which has advanced to 6¼*d.* per lb. for spot, and 6¼*d.* to 6½*d.* per lb. for next year. *Prussiate* remains quiet, at 6½*d.* to 6¾*d.* for yellow, according to brand.

QUICKSILVER has had a quiet week and closes at unaltered rates, the importers requiring 9*l.*, but secondhand holders accepting 8*l.* 13*s.* 6*d.* The Russian quicksilver mines at Nikitowka, of which we gave particulars in our issue of Sept. 1, have been exploited since 1879, when they were first discovered, but only since 1885, when they passed into the hands of the company now owning them, have they been worked in a practical manner. The precise output last year is given as equal to 2,883 bottles of the usual 75-lb. capacity, but the flasks in which the Russian quicksilver is packed weigh 84¾ lbs. each. The quantity of quicksilver-ore in the veins which are worked at present is estimated at 12,000,000 poods, containing an average of 1⅕ per cent., or a total of 120,000 poods = 4,332,000 lbs. of commercial quicksilver.

QUININE.—Business appears to have been slack this week. German agents quote nominally 1*s.* 6*d.* per oz., but we hear that some of them are offering freely at 1*s.* 5½*d.* per oz. *Howard's* price is 1*s.* 8*d.* for bulk and 1*s.* 10*d.* for vials. We understand that another 10,000 oz. *Auerbach* quinine will be sold without reserve next Thursday.

SENEGA has had a sharp upward movement, and all prices between 2*s.* 6*d.* and 3*s.* per lb. are quoted.

SENNA.—The *Werneth Hall* has arrived from Bombay with a further consignment of 149 bales Tinnevelly senna.

SHELLAC.—The market last week closed very firm, with considerable inquiries from American buyers, and up to 64*s.* per cwt. was paid for *fine orange* VSO spot, while *Garnet* AC realised 39*s.* for unworked, and *second orange* TN basis, 48*s.* per cwt. spot. Before the auctions a sale of fine orange (octagon B) at 65*s.* spot was reported, denoting continued firmness, but subsequently 64*s.* was said to have been accepted for the same mark. The quantity catalogued for sale on Tuesday was small, the total consisting of:—

Orange ..	..	200 cases, of which 125 were sold	
Button ..	..	180 „ „	57 „
Total	..	380	182

The second orange lac brought steady prices, viz., unworked fair, but rather reddish, 48*s.* 6*d.*; dark ditto, 47*s.* to 47*s.* 6*d.* Button, on the other hand, was irregular, some lots being 5*d.* to 1*s.* lower; good pale firsts realising 59*s*; seconds, 52*s.* to 54*s.* per cwt. For a parcel of very fine bright first buttons (RBBL. A1), of which 65*s.* had been the nominal price hitherto, 66*s.* was now refused. It has been in much better demand since the auctions, and *Garnet* has advanced fully 1*s.*, closing with business at 41*s.* for AC on the spot. For good pale *Button* (BL 1) 62*s.* cash has been paid, and 50*s.* c.i.f. terms for second orange TN September-November shipment.

SODA SALTS.—*Ash* steady at 1*d.*, less 7½*d.* per cent. on the Tyne, and 1⅛*d.* landed London. *Bicarbonate* unchanged at 5*l.* 2*s.* 6*d.* per ton. There has been a good demand for *Caustic*, which closes firm with a rising tendency; white, 70 per cent., spot, 7*l.* 15*s.* *Crystals* are also slightly dearer, closing at 47*s.* 6*d.* in London and 41*s.* 6*d.* on the Tyne; while *Nitrate* is very firm at 9*l.* 7*s.* 6*d.* to 9*l.* 15*s.*, according to quality.

SPICES (VARIOUS).—*Arrowroot* remains very dull of sale, fair to good St. Vincent realising 1⅞*d.* to 2¼*d.*, Natal, 2*d.* per lb. *Capsicums*, good red stalkless Madras, 28*s.* per cwt. The speculative movement in *Chillies* has not been maintained, and values are lower, 39*s.* to 40*s.* for good fiery Zanzibar. *Ginger*. Cochin remains very depressed, and the whole quantity offered by public sale was bought in. Jamaica is also dull, with small sales of ordinary dull at 62*s.* to 64*s.* 6*d.*; medium bleached, 65*s.* to 72*s.*; good bright bold, 76*s.* to 80*s.*; fine pale, 93*s.* per cwt. *Mace*, dull at 2*s.* 9*d.* for fair Penang. *Nutmegs* steady and unchanged, Penang (57 to 95), 4*s.* 4*d.* to 2*s.* 6*d.*; Bombay (84 to 107), 2*s.* 7*d.* to 2*s.* 2*d.*; West India (66*s.* to 118), 3*s.* 3*d.* to 2*s.* per lb. *Black pepper*, after having been in good demand at advancing rates before the auctions, relapsed into dulness at the public sale when only a small quantity found buyers, Atchin Penang, ordinary dusty to fair, 6⅜*d.* to 6⅝*d.* per lb. *White pepper* has been in active demand, and prices are dearer all round, the latest quotations being Penang, bold, 11½*d.*; good Siam, 12½*d*; good Singapore, 12⅝*d.* per lb.

TALLOW.—The prices of Russian and Australian mutton have further advanced since our last report, *Petersburg yellow candle* closing at 36*s.* 6*d.* spot, and *Australian* mutton good to finest at 27*s.* 6*d.* to 28*s.* 3*d.* Australian beef is worth from 26*s.* to 27*s.* 3*d.* per cwt. *American* tallow is also dearer, 27*s.* 6*d.* for North, and up to 29*s.* for South American.

TEA.—*China* market. Public sales continue very light, but a considerable amount of Congou has been taken off the market for export, and one or two shippers have operated largely, many parcels of pure Moning, both first and second crop, having been turned over on the market by dealers at fair profits. Second crop Ningchous from 7½*d.* to 11*d.* are dearer, and there is very little useful tea of this class to be bought from 9*d.* to 10*d.*; but the demand is but limited from the country. Common old season's Kaisows are firm at 3¾*d.* to 4*d.*; but this is accounted for by the scarcity of new Kaisow from 8*d.* downwards. Still there will be no dearth of these grades of Kaisow before long. Second crop Fanyongs are dear, selling from 11¼*d.* to 1*s.* 3*d.*, but the lower grades show a weak tendency. New makes are rather firmer, from 8*d.* to 10*d.*, but still show capital value. *Assams* offer freely, there being now a very fair assortment of useful teas—leaf and broken—between 8*d.* and 9*d.* Fair Souchongs and Pekoe Souchongs are selling at 7*d.* and 7¼*d.* in some quantity, but cannot be considered cheap enough yet, while really fine teas are wanted at very firm rates. *Ceylons* are steady at previous prices, Tuesday's sale consisting of 5,824 packages. Common tea keeps very dear, and as yet shows no signs of falling. A few small lots of *Japan* tea in sale this week fetched from 6*d.* to 8½*d.* per lb.

TURMERIC is rather dull, although vigorous efforts are being made to put speculative life into the article. At the auctions only 200 bags sold; *Madras* bulbs, very wormy, at 6*s.*; sweepings, mixed with lac dye, at 3*s.* 6*d.* per cwt. Ordinary *Cochin* finger is said to have changed hands at 9*s* per cwt.

WAX (JAPAN).—The latest price reported is 48*s.* for good pale squares on the spot.

CHEMICALS IN THE NORTH OF ENGLAND.

THE position of the chemical market continues to improve; the demand is active, and there has been a decided advance in many articles. There has been a meeting of the chemical trade which has created some excitement among export buyers, and a general opinion prevails here that for next year there will be a decided advance all along the line. But the salt question is a very serious one indeed, and some consumers believe that they will be protected by the trust, whilst others are convinced that they will have to pay much higher prices; thus the advance in the heavy chemicals may be to some extent for the benefit of the salt trust, and this, in the present condition of the chemical trade, for heavy alkalis would be most unsatisfactory.

ACIDS.—There has been a further decline in *Tartaric*, somewhat to the surprise of holders, and the market closes flat at 1*s.* 5¼*d.* per lb. *Citric* has been also very dull at 1*s.* 6½*d.* to 1*s.* 6¾*d.* per lb. For *Oxalic* there has been a steady demand at 4*d.* per lb. *Boracic* has been in request, and closing quotations are for spot at 27*s.*, and forward at 25*s.* 6*d.* per cwt.

ALUM has attracted more attention, and we are likely to have much heavier shipments as soon as buyers realise the advance in freights. Prices close very firmly at 4*l.* 15*s.* and 4*l.* 17*s.* 6*d.*, according to packages. *Sulphate of alumina* meets with better demand at 5*l.* 2*s.* 6*d.* to 5*l.* 10*s.* per ton, and *Aluminoferric* is selling freely at 3*l.* 2*s.* 6*d.* per ton.

AMMONIA SALTS.—*Sal ammoniac* has met with a good inquiry, and the shipments are heavier, at 34*s.* for first and 32*s.* for second quality. *Carbonate* is dearer, and is now selling at 4*d.* per lb., less discount. *Sulphate* also is firmer, and 11*l.* 10*s.* is the very lowest price f.o.b. Liverpool and Hull.

BLEACHING-POWDER is without further change, but is very firm, and the next movement appears likely to be an advance. Closing quotations are—Soft, on rails, at 7*l.* 7*s.* 6*d.*; and hard, f.o.b., at 8*l.*

POTASH SALTS.—*Chlorate.*—In consequence of makers of this article having come to some understanding there has been a strong inquiry for the chemical, resulting in a large business at full prices. The market closes somewhat excited at 6*d.* for prompt, and 6½*d.* for next year.

SODA SALTS.—*Caustic Soda.*—The late position is fully maintained, and values continue to harden. The present lowest quotations on spot are—Cream, 6*l.*; 60 per cent. white, 6*l.* 2*s.* 6*d.*; 70 per cent. white, 7*l.* 2*s.* 6*d.*; and higher prices are asked for forward.

REVIEW OF THE DRUG MARKET.

(*From Messrs. Gehe & Co.'s Semi-Annual Report*)

ACID (CARBOLIC).—The demand continues to be considerable, and a return to the former low values need not therefore be expected just at present. It is true that quite lately prices have been slightly reduced, but this may be simply attributed to the fact that speculators had bought carbolic acid largely, in the expectation that the French Government would enter the market for considerable quantities, and that, disappointed in that hope, they threw their acquisitions on the open market and thus depressed the price. But a continued fall in the price does not seem possible, especially as it is said that the German Government is also about to purchase large quantities of the crude acid for the manufacture of explosives. Such an occurrence would be of considerable importance for the German industry, but a sensible increase in the production is not feasible, the manufacture of carbolic acid being dependent upon the turn-out of coal tar, which, as a by-product in gas manufacture, is only obtainable in sufficient quantities from the large British trading centres. The quantity of coal tar used in the production of carbolic acid is estimated at 6,000,000 cwts. in England, 1,000,000 cwts. in France, 750,000 in Germany, 300,000 in Belgium, and 150,000 in Holland.

ACID (CITRIC).—During the last few months the prices of citric acid have fluctuated within narrow limits. Nothing has been perceptible this summer of the increased consumption which generally sets in with the warm weather. The manufacture of absolutely lead-free acid, formerly more or less a monopoly, is now carried on by several works. The degree of purity of goods manufactured by all these is equal, and in one single instance only Messrs. Gehe & Co. have been able to detect traces of the metal in a sample purporting to be lead-free.

ACID (HYDROCHLORIC).—The advance in the price of this acid has made no further progress during the last two months, but the demand has remained a very lively one, and it is to be feared that the consumption is outrunning the production. The experiments to manufacture chlorine and hydrochloric acid from chloride of magnesia have meanwhile made further progress, and the solution of this question may be awaited as a certainty. The importance of the Pechiney process for the Stassfurt industry, which could produce 150,000 tons of chloride of magnesia annually, half of which is at present unused, is undeniable. This industry will probably in future derive the greatest possible benefit from the Pechiney process.

ALCOHOL.—The unfavourable effects of the new spirit law on the spirit trade have continued to make themselves felt since last spring. The regulations laid down in the new law became a source of annoyance, causing intricate negotiations with the customs authorities, and preventing the business from assuming a regular course. Besides this, the heavy stock existing at the opening of the new season, owing to the uncertain position of the market, prevented an upward movement for a long time, nor was the continually recurring scheme for the establishment of a spirit bank favourable to the development of a steady trade. Under these circumstances it is not surprising that the spirit market lacked the absorbing power required to reduce the effect of the revolutions in the price brought about by the heavy offerings, and this all the more because the exports to foreign countries had fallen off. Not only has the increase in the customs duty rendered the export of alcohol to France and Italy more difficult, but business with Spain has also suffered a serious blow through the impending change in the customs laws of that country affecting alcohol. Moreover, German trade is severely handicapped by the growing competition of Sweden and Russia.

CAFFEINE.—There is probably no article which so clearly illustrates the tendency of the times towards cheaper prices as caffeine. In the beginning of the sixties it was quoted at 700 marks per kilo.; ten years later at 200 marks; last year the price fell to 70 marks; and now it is only about 40 marks. The new-born competition of England as a caffeine producing country will severely injure the German industry. Not only will the United Kingdom be lost as a customer, but it may be expected that sooner or later English competition will make itself felt on neutral ground.

CHLOROFORM.—The exportation of chloroform from the German Zollverein has been reduced by one-third during the last three years, while during the same time the imports have trebled, notwithstanding the Customs duty of 20 marks per 100 kilos. This declining power of competition of the inland industry as pitted against that of Hamburg is easily accounted for, especially where foreign countries are concerned, Hamburg being better situated for her supply of the crude material, especially spirit and chloride of lime.

EGYPTIAN MUMMY.—This article is still in request on the Continent, partly in the preparation of painter's colours, and partly for antiquated medicinal purposes, but lately it has not been possible to fill the demand. The news comes from Egypt that the excavations are now only permitted to take place under Government surveillance, and that all the sound specimens found are kept for museums, while fragments are again buried. An effort is now made to procure the bitumen usually found in the stomach and abdomen of the mummies, which, it is thought, will be found serviceable for the purposes required.

ETHER.—The price of this article has been declining since the spring, in sympathy with alcohol. The purity of ether is a subject now engaging great attention in pharmaceutical circles.

SABADILLA SEED, after having been long neglected, has recently advanced at the rate of about 5*s.* per cwt., speculators having removed several hundred bales from the hands of the importers. The stock is probably no longer a large one, and the future situation depends upon the result of this season's collection in Venezuela.

VANILLA.—The efforts of the owners to drive up the value of Bourbon and Mauritius beans have shipwrecked because of the large stocks; extra-fine quality only has become proportionally dear, the last crop having yielded mostly medium qualities. Our supplies are certainly quite sufficient to last us until the arrival of the bulk of the new crop, about which no reliable details are yet known.

SUGAR OF MILK has become still cheaper, the unfavourable climatic conditions notwithstanding. Since the preparation of sugar of milk has been commenced in a wholesale way in several parts of Northern Germany, the Swiss product has been superseded by the German, both as regards cost and quality.

COLCHICUM SEED has been gathered in insufficient quantities, the rain having caused the seeds to fall from the capsules before the latter could be gathered. Still higher prices will consequently have to be paid in the future.

RHUBARB.—The selection of good China rhubarb becomes more and more limited, and according to advices from China no large supplies of genuine Shensi root can be expected to arrive for some time. Altogether the shipments from Shanghai have been smaller than ever before; for the first quarter of 1888 675 piculs, and in the second 726 piculs, only were exported, as compared with total shipments of 4,000 to 6,000 during the years 1887 and 1886. Really fine Canton and high dried roots also are scarcely procurable.

Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish.

Write on one side of the paper only; write early; and devote a separate sheet of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read.

Ask us anything of pharmaceutical interest: we shall do our best to reply.

Before writing for formulæ consult the last volume, if you have it.

Letters, queries, &c., not noticed in this issue will be attended to as soon as possible.

Sale of Carbolic Acid in Denmark.

SIR,—It may interest the readers of your valuable journal to hear the restrictions that are taken here in Denmark regarding the sale of carbolic acid, to prevent the large number of suicides there were committed here with this dangerous poison. Four to five attempts happened in one week in our little country, and nearly all with fatal results, and it would certainly have been nearly a mania if the College of Health had not taken the following restrictions against the sale of the acid:—The pure acid must not be sold except on the prescription of a medical man, and not more than once unless the doctor permit it, and the diluted acid can only be obtained in 5-per-cent. solution. Moreover, the bottles must be labelled "Poison" on the front and back. The effects of the restriction have been very successful, as it is now very rare that a suicide is committed with this deadly poison. I remain, sir, yours truly,

Otterup Apothek, Denmark, Sept. 21. C. KRAUSE.

Dispensing Prices.

SIR,—Below are copies of three prescriptions dispensed in one day:—

Acid. nit. mur. dil.	♏40
Ferri et quininæ cit.	gr. 40
Sp. chloroformi	♏80
Aquæ ad	℥viij.
Acid. nitric. dil.	♏48
Liq. strychniæ	xxiv.
Sp. chloroform.	ʒj.
Aquæ	℥vj.
Ammon. sesquicarb.	ʒss.
Potass. bicarb.	ʒij.
Aq. chloroform.	℥iij.
Mist. camph. ad	℥viij.

If "Gentian" can make the cost 4½*d.* in either case he is far more clever than the present writer would infer from his silly question.

Some of these retail druggists are *par excellence* the greatest duffers in business. It seems too absurd to merit notice; but such questions rile me. I am strongly of opinion that if bread is put into their mouths they would want to be told how to swallow it. ONE OF THE FRATERNITY.

SIR,—I have read from the first the majority of the letters on the question of "Prices" with much interest, and am pleased to see that a better and more business-like tone is taking the place of much of the complaining. I have not troubled you with a letter before, but think that my experience may be of service to encourage others.

My business lies in a small country town, with middle-class inhabitants, and a very slightly increasing population. Myself and others adopted "reduced prices" some years ago (not without opposition), and the following figures will show the result in my case.

Ready money (*Cash*) for 1882, 1,096*l.*; for 1887, 1,528*l.*, the booking during that time decreasing somewhat.

Careful attention should, I think, be given to the following points:—

1. *Ratio of Profit.*—The prices of drugs and the prices charged for dispensing must vary somewhat according to the neighbourhood; but with regard to patents, I should say, Do not attempt to go down quite to the stores level, but decide upon a small fixed profit (perhaps 10 per cent.), and, having decided upon it, do not sell below, even if you occasionally lose the sale of an article. That will not often happen.

2. *Buying.*—This should, if possible, in every case be for cash, and in original packages, or as large quantities as possible, both of drugs, patents, and sundries.

3. *Manufacturing.*—This item is highly important, as most of the preparations of the Pharmacopœia, viz., ointments, tinctures, wines, and solutions, can be, with very little trouble, made better and cheaper than they can be purchased, as the following entries from my laboratory book will show:—

Liq. Strychniæ Hydroch.

	s.	d.
Strychniæ, 480 grains	2	11
Acid. mur. dil., ʒij.	0	1
Sp. vini rect., ℥xxiv.	3	3
Aq. destill. ad ℥100	0	1
Cost of making (10 per cent.)	0	8
	7	0

Product, 6 lb. at 1*s.* 2*d.* per lb.
Usual list price, 2*s.* 0*d.* „

Tinct. Digitalis.

	s.	d.
Fol. digital. contus., 1 lb. 4 oz.	2	2
Sp. tenuior, 1 gall.	13	0
„ (waste), ℥x.	0	10
Cost of making (10 per cent.)	1	6
	17	6

Product, 9 lb. 9 oz. at 1*s.* 10*d.* per lb.
Usual list price 2*s.* 4*d.* „

4. *Always take stock annually.*

It would be easy to enlarge considerably on the third point, but the desirability of making all, or nearly all, that you require is too obvious to need pressing.

Trusting that this may be of service to some discouraged brethren, I remain, sir, yours obediently,

COUNTRY CHEMIST. (51/137.)

SIR,—I feel I must send you the following as a curiosity in dispensing profits. It was presented to be made up with two or three Hull stamps upon it. I was asked if it would be same price as paid in Hull. I naturally inquired how much that might be, and was extremely gratified to hear that some had charged 6½*d.*, the others 7*d.*, so I told them at once they had better pay carriage from Hull, as then it would be cheaper than my price. I am, &c.,

Grimsby. J. P. R. (135/53.)

Borax	½ drachm
Spirit of rosemary	2 oz.
„ hartshorn	½ „
Tinct. cantharides	½ „
Best olive oil	½ „

SIR,—Permit me space to reply to the correspondents who have challenged my statements. I simply wished to protest against the unbusinesslike attitude assumed by great numbers of the trade towards the "stores." I had no idea of making the matter a personal one. The prices I quoted are not those which obtain in Buxton; we have no "drug company" or "co-operative stores" here. Dispensing prices, instead of being lower than elsewhere, are considerably higher than in many towns; so much so that a brother-chemist in Yorkshire recently informed me that a customer of his, on returning from a visit to Buxton, remarked, "You don't know how to charge in Huddersfield." I hope I am not breaking confidence, sir, by telling you that the price quoted for an 8-oz. mixture, tablespoonful dose, in "the Buxton chemist's list of dispensing charges" is 2*s.*

Mr. Griffith's client is either perverting the truth or labour-

ing under a delusion, for no store—much less chemist—in the country would charge less than 1*s.* 3*d.* for such a mixture as he describes. As some of your correspondents seem to need enlightenment on the subject, I might mention the pricing system adopted by the stores. It is that which prevails largely on the Continent (*vide* "Art of Dispensing," page 217). To quote from a price-list recently advertised in THE CHEMIST AND DRUGGIST, "Charges for dispensing are fixed by the following rule: the retail price of the drugs prescribed is calculated, a small margin allowed for skill, time, bottles, &c., but no charge is ever made for the water."

"Gentian's" *naïve* query goes far to justify the remark once made to me by a successful drug-store proprietor in the South of England—"Chemists as a body are the greatest duffers in existence at figures."

The fact is, I rather understated the case than otherwise. I think I might safely say that the stores never dispense for less than 100 per cent. profit, and very often the percentage is much higher. Does not every dispenser meet with such prescriptions as the following?—

Tinct. ferri perch.	ʒij.
,, nucis vom.	ʒj.
Aq. chlorof. ad	℥vj.

The store price for this mixture would be 9*d*, the actual cost 2*d*.

To revert for a moment to my original contention. The stores are ever with us, and are increasing in popularity and numbers every year—nay, every day. It is largely due to chemists' own crassness and conservatism that these concerns have obtained such hold on public favour. The pitiable expedient resorted to by some, of trying to persuade their customers that "price cut" means "quality cut" also, and the equally asinine conduct of others, who deliberately refuse business and then write to you bewailing their lot, are alike calculated to hasten that day when Napoleon's verdict will have to be rewritten, and England will no longer be a nation of shopkeepers, but of stores. Yours truly,

Buxton. C. S. ASHTON.

"100 per Cent."

SIR,—In your issue of September 15 I do not suppose that Mr. C. S. Ashton means that the mixture which he sells at 9*d.* costs nothing, when he says that at that price it will still bear 100 per cent. profit, but that it costs 4½*d.* or less. May I ask him what percentage of profit it would bear if retailed at 1*s.* 6*d.*, assuming that it bears 100 per cent. profit if sold at 9*d.*?

Supposing I buy goods to the value of 1*l.*, and at the end of a certain time am allowed 5 per cent. discount. I take off one-twentieth of the whole and pay 19*s.*; if, again, I am allowed 50 per cent., I take off half and pay 10*s.*; and if I were allowed 100 per cent., I should have nothing to pay.

A few remarks on this subject from a little book of Sir Edmund Beckett's may not be out of place here. "People nowadays, especially commercial ones, will not even talk of a half or two-thirds of anything, but of '50 per cent.' and 66⅔ per cent.'; and sometimes they talk of a thing costing 100 per cent. less, as if it were the converse of costing 100 per cent. more, instead of being nonsense; for they do not mean that it costs nothing, but half as much. If they would condescend to use vulgar fractions whenever they can be expressed in small figures, and especially when the numerator is 1, they would save a great many words and make fewer mistakes. In some cases decimals are best."

Yours truly,

ORION. (136/19.)

[We see nothing very faulty in the expression that a mixture costing 4½*d.* and sold at 9*d.* "bears 100 per cent. profit"; at the worst it is only vague. The vendor adds 100 per cent. profit to the cost; he makes 50 per cent. out of his return. If he sold the mixture at 1*s.* 6*d.* he would have put on 300 per cent., and 75 per cent. of his receipt would be profit. The mixture "bears 100 per cent." may mean either.]

Arrangement of Stock.

SIR,—Kindly allow me to point out that the system of arranging stock described by "C. B. A." in your issue of September 22 has been recommended since 1884 in the "Liverpool Chemists' Price List." Directions for placing and arranging stock in both shop and warehouse were published in the sixth edition, at the suggestion of Mr. Hockin, and were so favourably received and highly appreciated that the committee also included them in the seventh edition, copies of which, with addition of more recent drugs, price 1*s.* each, may be had from Silverlock, or,

Yours truly,

JOHN BAIN,
Hon. Sec. Liverpool Chemists' Association.

Liverpool, September 25.

The Bloomsbury Club.

SIR,—In your excellent journal for the past few weeks there has been a correspondence on the reform of the "Square," and I see that certain writers suggest that chemists at present outside its wonderful pale should join it, and reform it from the inside. This argument has been used on several former occasions, to the best of my belief, and has not been found to answer. Why? Because the trade is thoroughly disgusted with the doings at the club of the select few, and will have no more to do with it. When or where has there happened a more disgusting thing than the Dunstan affair? Will chemists continue to subscribe to a society that allows such a thing as that to pass comparatively unnoticed? It may do for the "Square" people to think so, but I venture to believe that at the end of the year they will find others in the provinces view the matter with very different eyes. I know several annual subscribers who aver that never again will they forward the "needful," and if this feeling exists in one part of the country, I doubt not but that it also exists elsewhere.

My idea is that all who value their business should cease to belong to the club, leaving the "learned men" to, in the words of a well-known politician, "stew in their own juice," then in the course of a few years apply to the Government for powers for a new society to take the place of the then defunct one. Yours, &c.,

A PRESENT SUBSCRIBER TO THE CLUB.

[We have been compelled to eviscerate the letter of this outspoken member of the Society, because the greater part of his communication consists of vigorous charges against those responsible for the conduct of the Pharmaceutical Society's business, which really imply fraud. When serious charges are made, the utmost nicety of expression should be studied. It is vagueness, not vigour, to which we object.—ED. *C. & D.*]

Salts of Lemon.

SIR,—A great many chemists, so I hear, sell the mixture of cream of tartar and potas. binoxal. when salts of lemon is asked for, some even putting in essence of lemon, and potas. binox. alone for salts of sorrel. They do so simply because it is the old custom, I suppose. The mixture costs more than the simple, and is less effective, so that it would be better, as many do, to give the plain potas. binox. for both.

Yours truly,

Sept. 24. RESEDA.

Salts of lemon is stated in Ure's "Chemical Dictionary" to be "super-oxalate of potash." This I always have supplied. EBORACUS.

SIR,—We always supply sal acetos, whether salts of lemon or salts of sorrel is asked for.

Belfast, Sept. 24. COCAINE HYDROCHLOR. (137/11.)

Sal acetos = salts of sorrel; sal acetos, 2 parts, and potas. bitart., 1 part = salts of lemon. SORREL. (129/69.)

SIR,—During a varied experience, extending over a considerable number of years, I have known of only one establishment where other than potass. binoxalate was sold for

lts of lemon. In that case the mixture sold was equal irts of acid. oxalic., potass. binoxal, and potass. acid. tart. believe they now sell the simple sal acetos for both. We nd that our customers, on explanation, are quite satisfied ith the sal acetos, which we, in all cases, label "Salt of orrel," as we have reason for saying that "Salt of Lemon" misleading: it is apt to give the uninformed the idea that is at least a harmless salt—they associate it with lemon uit or flavour. (By the way, how did it get that name? it because it has a smell slightly resembling lemon; or did snpersede the use of lemon in the laundry?) A case in oint—not long ago a lady on a visit to a relation in the ountry had taken along with her a packet of "Salts of emon," which she unintentionally left behind her. The ountrywoman found it, and thought from its "nice name" at it would be a packet of improved or pleasant salts, hich she had seen advertised in the "town papers," conseuently she administered it to her boy. I need hardly add at the boy was in a precarious state for several days afterards. We should make "salt of lemon" an obsolete term: is too dangerous; there is something in a name after all.

EDINA.

Cycling for Chemists.

SIR,—Your correspondent, "Soda Carb.," asks for the exerience of cycling chemists upon the use of a cycle for usiness or pleasure purposes. I can thoroughly endorse all e has said, first as to cycling being a source of exhilarating leasure, and also an extremely rapid means of delivering mall parcels of goods. I have been a rider nearly twenty ears, have ridden almost every variety of bicycle and triyle, and though for carrying heavy goods a tricycle is uperior to a bicycle, my experience has convinced me of the uperiority of the Safety bicycle for comfort, speed, safety, nd easy storage.

I am now riding a "Geared Facile Safety Bicycle," than hich a better machine has never carried me, but for the ast five or six years I have had an ordinary "Facile Safety." believe this machine is more suited to the business requireents of a chemist than any other; it is extremely well nade. My last one did not cost a penny in repairs for ertainly over 2,000 miles' riding; it is marvellously cheap—*l.* 10*s.* for a small man's size; a boy's machine is made, I elieve, for considerably less. Anyone can learn to ride it in wo or three days, and across the handle-bar, or in a case trapped to the back of the rider, any ordinary parcel, of easonable size, may be carried with ease.

Before business in the morning, or after closing at night, a en or fifteen miles' spin is a luxury I should be sorry to give p now that I have experienced its invigorating effect, and any a time has the quick delivery of an important package et with expressions of satisfaction from my customers.

Believe me, yours truly,

Chase Side, Southgate, N., JOSEPH H. BOLTON.
September 17.

SIR, — I have found the above very useful both for usiness use and also for recreation. I have used tricycles contrived a double debt to pay." First a Rudge, entral geared, and lately an Ivel, and give the palm to the atter for ease and speed. My assistants and apprentice an speak of many pleasant rides out and about in company vith myself, though I have never used what is termed a 'carrier ricycle' for strictly business use; a simple luggage-carrier ffixed to a machine supplies all our needs in the latter ense.

Yours faithfully,

J. W. LATHAM.

SIR,—I also have ridden a cycle for some years, first an rdinary high one, next a "Facile," and lastly a "Whippet," vhich last makes riding a luxury indeed. I work a small usiness in a crowded neighbourhood single-handed, and am isible behind the counter fourteen hours a day. I think I an say with perfect safety that if it had not been for the enefit I feel to have derived from my cycle-riding I could ot have done it. My advice is, if you want to be well and eep well, and enjoy life, learn to ride a cycle. The only oliday I have had for five years I spent on my cycle going through the New Forest, Bournemouth, Salisbury, by Stonehenge to Devizes, then on to Reading and Guildford, taking train back to be in time for Monday's work. It was a most interesting week's tour, and thoroughly enjoyable. Messrs. Linley & Biggs, 29 Clerkenwell Road, are the makers of the "Whippet," a machine I can strongly recommend either as a bicycle or tricycle.

85 Arundel Street, Landport, Yours truly,
September 19. FREDERICK GALL.

SIR,—Some six months since I felt myself "breaking down"—irritable, restless, dull. Dr. Richardson's little book on tricycle-riding was placed in my hands; result was I bought a good machine, rode it half an hour in the morning and an hour or so after business. This, together with a cold sponge bath every morning, has made a new man of me. Being fresher after my ride, I can often make a better bargain, so I consider my machine decidedly economical. My district is limited, hence I have not used tricycle for business purposes. My advice to my brethren is, get a good machine, ride no farther to start with than you can comfortably walk (many become disgusted with the machine by attempting too much at first). Have breakfast half an hour earlier; get away for that time before business. When this is generally adopted we shall hear less of the apparent hardships from which, as a body, we now suffer.

Yours faithfully,

Dorking, September 19. F. W. DOUBLEDAY.

Doctors and Pharmacy.

H. E. W. (53/130) writes:—"Having finished work in our dispensary the other evening, I was just slipping on my coat when one of our doctors came in to consult me about the medicine of one of his patients. His eye presently caught sight of my ol. nucis bottle on the shelf above him, and in a tone of surprise he exclaimed, 'Dear me, I did not know you made your own tinct. nucis vomicæ, and kept the oil for that purpose."

Jacob (20/90) writes:—"Apropos of your article on 'Doctors' Dispensing *v.* Chemists' Prescribing,' I was told by a woman on Sunday that one of our local doctors nearly poisoned her the other day. She had got a liniment and a bottle of mixture to take; the doctor in his haste put the liniment label on the mixture, and *vice versâ*. She took one dose of what was labelled to be taken internally, and was very nearly 'across the bourne.' If we made mistakes of that kind what would the doctors say?"

Protests.

SIR,—I cannot help thinking that there has been rather too much praise of the "cutting" chemist in your columns of late. I do not believe in exorbitant prices, and I am ready to grant that with many of us it may be simply suicidal even to expect moderate profits; but still, in the name of all that is fair and reasonable, let us not too readily assume that the crisis is everywhere throughout the land upon us, that we must all run a break-neck race to "rock bottom prices," that it must be "each man for himself, and the devil take the hindmost."

The chemist brought really to bay must fight the enemy with his own weapon, but he who has gratuitously introduced into a neighbourhood the system of making one chemist flourish where three or four did before should thereafter feel himself in duty bound, supposing he has a conscience, to devote his surplus capital to the relief of the families whom he has ruined.

There are several considerations against prematurely reducing the price of patents to zero that are frequently lost sight of. A customer will not go to a grocer for a ten minutes' consultation over a bottle of chlorodyne: neither will he call him up in the night for the same. Why should a chemist too readily do either for a halfpenny profit?

Another protest—"Early Closing."—Our friend "Heder" (July 28) asked "Cui bono?" and added, "If we are to be good and ready servants of the public we must be at the beck and call of the people, and my own experience is that

an open shop is preferable to innumerable races downstairs and through passages to a side door." Now I join issue here. I have been at times, perhaps, more annoyed than "Heder" at this side-door trot, as I have for the last fourteen years been living in the midst of a large working population, and am the only chemist resident at his shop therein. Still, I have consented to take these frequent walks to a side door rather than that the public should have the conception that all hours come the same to the poor chemist. I thoroughly close and turn down all lights at 8 P.M. All subsequent callers have to ring my side bell. Within my passage is a prominent notice giving my hours of ordinary business, and respectfully asking my customers as far as possible to observe the same.

Well, my business has increased these fourteen years, but I am thankful to say that whereas I have had, for instance, in bygone times, fifty or sixty rings at my private bell after 5 P.M. on Sunday (my predecessor used to open then), I have now sometimes barely six.

It should be remembered that he who keeps open shop at all hours rather than be annoyed by a side-bell ringing is not only in the long run depriving himself of leisure, but also, perhaps, taking from every member of his trade in the town opportunities for study and recreation that would be highly prized.

"NO MAN LIVETH TO HIMSELF." (133/30.)

September 18, 1888.

Is Pharmacy a Failure?

SIR,—There is no question that pharmacy as a trade is comparatively a failure. Stores and grocers have taken away its profits to such an extent that the pharmacist of to-day must be a frugal, self-denying man to hold his own in a good neighbourhood. It is very well to argue that the halfpenny or penny profit is a fair margin, and is so much per cent. on the cost, &c., but no individual trader can compete with the large combination of capital invested in stores, where the turnover is so large. With a return of rarely more than 1*l.* per day, sometimes much less, the chemist has a large rent, heavy taxes, household expenses, and education for his children to pay for. How it is done is a mystery, but I know it is done, and a fierce battle it is with the majority, who have to keep up appearances and subscribe to every church, chapel, and municipal fund. I should be sorry to have to start afresh in business to-day. It is simply respectable starvation, with hours from 8 A.M. to 10 and 11 P.M., which no working-man would tolerate. My children, with a good education, are learning a handicraft. The workshop will not, I trust, be always their sphere; with their heads screwed on right they must eventually rise to be "bosses," and will reap the reward of honest labour. It is no use repining; the old order changes, and history will repeat itself. The surgeon-apothecary will have again his open shop and dispenser; hair-oil and feeders will be relegated to the stores. The chemist will be such by profession and practice. The patient, kindly man behind the counter to-day, ever at the service of the public, harassed by red-tapism, excisemen, analysts, and coroners, will be a thing of the past—a fossil to place in some future Bloomsbury Museum. "SIC TRANSIT," &c. (136/22.)

Pharmacy Reform.

SIR,—The delightfully unconscious humour displayed by "A Very Minor Man" in his panacea for pharmacy ills makes us as curious regarding his identity as we are of "Heder's." His humour is undoubtedly verdant, but therein lies its piquancy; it is a trifle unkind though when it implies that the employers' chief end is evidently to bleed the public, and to somewhat surreptitiously obtain the services of others; it is keenly ironical, too, when it practically suggests that employers should adopt the *rôle* of miracle-working philanthropists. We would here observe that the satisfying of thousands by means of a few loaves and small fishes and having abundance left over was a miracle that could be performed only once in our world's history. We have enjoyed "A Very Minor Man's" huge joke immensely. We hope he won't find fault with our taking this to be the spirit in which he wrote in your last issue. AULD CALLANT.

Claxton's Oils.

SIR,—This is what we sold in Lincolnshire as "Claxton's Gout and Rheumatic Mixture or Oils":—

Liq. vol. c. c. opt.	℥j.
S.V.R.	℥j.
Lin. saponis co.	℥j.
Spt. camph...	℥j.
Tr. myrrhæ co.	℥j.
Ol. dulcis	℥j.

M.

Dose: 12 to 20 drops three times a day, and to be rubbed in the parts affected.

RAITHBY. (138/70.)

Mr. Burroughs Replies.

SIR,—I again thank R. H. for his second kind letter, and his good words for almost our complete list of products enumerated, but he does not yet say which of our articles he refers to as being an evil to the trade. Being fully determined to manufacture and supply only such articles as are a positive benefit to the trade, we can safely promise to discontinue any which can be proven otherwise. He refers to certain solutions which chemists could make as well and as profitably as they can buy. Does he refer to the Kepler solution of cod-liver oil in extract of malt? If he will make a trial batch of this he will be convinced to the contrary, for it not only requires an extract specially prepared to contain a good proportion of diastase, but a good deal of "elbow grease," or powerful mixing machinery, as well. It is a distinct benefit to the trade, as it is continuously bought by patients who are quite unable to take cod-liver oil in any other form, thus creating new business. And the oil is, I believe, more profitable to sell in this form than in the crude state.

Perhaps H. R. refers to our beef and iron wine. It is as as easy to prove that the introduction and sale of this preparation is also beneficial to the trade, as it takes the place of the family jug of cider or wine with rusty nails soaking in it, and of home-made beef-tea, with neither of which has the chemist anything to do. In some cases it may be prescribed instead of vinum ferri, but it is not only as profitable to sell as that nauseous mixture, but it is likely to be used for the time prescribed, which is not usually the case with the former. Chemists do not require a wine licence to enable them to sell it, as it contains quinine, which, with the iron, constitutes it a strictly medicinal preparation. To make this preparation well is no easy matter, as we know after studying and experimenting upon it for several years, having ourselves but lately settled upon a satisfactory formula and process.

These and our Valoid Fluid Extracts are the only other preparations to which H. R. may refer as evils to the trade, and the latter are appreciated by most chemists as economical and convenient forms for the manufacture of tinctures, infusions, syrups, &c. I regret that I am unable to guess what products H. R. refers to.

Yours truly,

S. M. BURROUGHS.

DISPENSING NOTES.

The opinions of practical readers are invited on subjects discussed under this heading.

Gelatine Bougies.

Verax (Birmingham).—Please be more careful in addressing your letters, which only reached us on September 24. Long bougies (6 inches or more) may be made very simply by taking an ordinary glass male-syringe, and enlarging the outlet to the diameter required for the bougie. Partially fill the syringe with the bougie mass, and with the piston press it out in rod-like form, and cut to any size required.

Chlorodyne.

SIR,—My opinion is that "Dr. Collis Browne's Chlorodyne" only should be dispensed in such cases, as I think it

the chlorodyne of the physician and of the public. Should a mishap occur, say, such as is reported in THE CHEMIST AND DRUGGIST of September 15, page 347, the dispenser, I am sure, would be more readily acquitted as blameless could he show that Browne's preparation was the one he dispensed. EDINA.

SIR,—I consider that Collis Browne's being the original and most widely known should be used for this. Other makers are frequently, if not always, specified when required. Yours truly,

Sept. 24. RESEDA. (136/56.)

Unqualified declarations in favour of Dr. Collis Browne's preparation are also given by J. Marson & Son (Stafford), "Sorrel," "J. McI.," "Eboracus," "Max" (137/8), "Mahtal" (137/8), and "J. G. M."

Amongst opinions to the contrary are the following:—

Chlorodyne is only a fanciful name; Collis Browne's was the recognised article; but since the B.P. 1885 gives a formula somewhat representing it, though a poor attempt, I think it might be dispensed when no special preparation is ordered. Yours,

ROINES.

SIR,—It is my opinion that tr. chloroform. et morph., B.P. should be dispensed when the name of the maker of the chlorodyne is not specified. I am sure the prescriber will approve of this, as he knows exactly what it contains, besides being carefully made by the pharmacist himself.

I am, yours truly,

AJAX. (137/15.)

SIR,—When chlorodyne is prescribed without any maker's name attached, I have for years dispensed the liq. chlorof. co. made according to the formula published by Squire, for the reason he gives—viz., that the prescriber may know the composition of what he is ordering or what I have dispensed if he should happen to ask me.

Chester. W. DAVIDSON.

SIR,—When chlorodyne is ordered, we invariably use Martindale's liquor chloromorphiæ.

Yours,

COCAINE HYDROCHLOR (137/11.)

I use a chlorodyne containing morphinæ hydroch., gr. iv.; ether, ʒj.; chloroformum, ʒiij. (with the usual accessories, liquorice and treacle), in each fl. oz. J. B. BRIERLEY.

SIR,—In regard to above I should dispense my own make, but if I had not time or inclination to make I think Collis Browne's best. Yours respectfully,

Stockport. S. JOHNSON.

138/63. *J. W. G.* expresses a similar opinion.

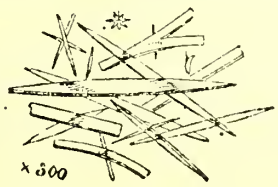
Antipyrin and Sp. Æther. Nit.

SIR,—I was asked by a medical man to-day whether it is a fact that, when sp. æth. nit. is dispensed with antipyrin, an anodyne poison (or another poison, the nature of which he was told but could not remember) is thrown down. This he considers very important, and should be found out. I am unable to solve the question, and told him I should apply for information at headquarters; hence this letter.

Yours obediently,

GRATEFUL. (127/62.)

We have previously explained the nature of this reaction, but may repeat that the coloration is due to the formation of iso-nitroso-antipyrin, owing to the action of the free nitrous



and nitric acids of the spirit of nitrous ether. All quinizenes (and antipyrin is dimethyl-oxy-quinizene) readily undergo this change: The green mixture upon standing deposits crystals of the iso-nitroso compound, a microscopic representation of which we reproduce. There have been several cases of alleged poisoning with the mixture, but, strange to say, the *National Druggist* reported some time ago that Dr. L. Bremer experimented with the separated crystals on a small rabbit, in progressive doses, both by hypodermic injection and by the stomach, starting from ½ grain and going up to 4 grains, yet there was no toxic effect. Probably the reaction between the nitrous acid and the antipyrin is rather complex, and the toxic principle is not the iso-nitrous body, but remains in solution. At all events the mixture is considered to be a dangerous one.]

Belladonna Plasters.

SIR,—I spread a small belladonna plaster, a few days since, with the new B.P. plaster, which I got from a good house, and have every reason to believe is made in accordance with the B.P. formula. The doctor called in to-day to say that it had caused so much irritation as to produce a blister. I cannot account for this in any way, and should be glad to hear if any brother-chemist has experienced anything similar with the 1885 emp. bellad.

Yours truly,

M. P. S. (133/37.)

Hair Lotion.

In our last issue "Country Chemist" asked what "sp. ethyl." may be in the following prescription, and how much of it is required:—

Ol. ricini	ʒij.
Glycerini pur.	℥iss.
Tr. cantharr.	ʒj.
Ol. bergamot	♏iv.
Sp. coloniensis	♏iv.
Sp. ethyl...	q.s.

To make a clear, transparent solution. To be used for the scalp as directed every morning.

Reseda (136/56) replies:—"I should think that the sp. ethyl. ordered was intended for alcohol. ethyl. (absolute alcohol), and would make a fairly good solution with about 2 oz." *Mahtal* (137/8) is of a similar opinion, but would use the alcohol "to 16 oz."; and *Roines* says "to 8 oz." *Eboracus* thinks that "sp. ethyl. should be S.V.R."

13/22. *W. G. M.*—In reply to yours, Mr. J. S. Barber, of the Royal Free Hospital, Gray's Inn Road, favours us with the following formula for

Mist. Quass. c. Ferro et Magnes. Sulph.

Liq. ferri perchlor.	♏iij.
Magnes. sulph.	ʒvj.
Infus. quassiæ	℥xij.

M. Capiat ℥ss. ter die.

Syrup of Iodide of Iron Mixture.

Junior (137/74) dispensed the following as an almost colourless mixture:—

Syr. ferri iodid.	℥j.
„ aurantii	℥j.
Aq. fontanæ	℥j.

Mft. mist.

The customer brought it back with the remark that "one of the first houses in Edinburgh sent it out of a deep red colour." We can only get the mixture of a pale amber colour. Perhaps the Edinburgh syrup of orange had "gone wrong."

Hydrochlorate of Quinine and a Bromide.

W. (131/20) states that a customer sometimes gets the following mixture clear, but "W." cannot get it so:—

Ammonii bromidi	ʒij.
Quininæ hydrochloratis	gr. xii.
Aquæ chloroformi ad	℥viij.

Misce.

[To look at this formula should give a clear mixture, as hydrochlorate of quinine is "soluble in about 34 parts of water" (B.P.), and the hydrobromate (supposing it were formed in the mixture) is even more soluble. It requires, however, very brisk shaking for ten minutes before 12 grains of commercial hydrochlorate of quinine dissolves in 8 oz. of water, so that the apparent solubility is much less than the Pharmacopœia states. We may add that the U.S.P. gives 1 in 34., Phar. Ger. 1 in 40, and the Codex 1 in 25, as the ratio of solubility in water 15° C., while the "Extra Pharmacopœia" gives 1 in 36. If in dispensing the prescription the quinine is shaken up with the water for a few minutes, it does not quite dissolve, but a clear solution is formed on the addition of the bromide, and in a few minutes thereafter there is a copious separation of small crystals which gradually settle in flocculent form. The precipitate is not dissolved by the addition of 4 drops of dilute hydrochloric acid. We should be pleased if several subscribers would give the mixture a trial and report their results.]

138/63. *J. W. G.* confirms our remark that ext. belladonnæ alcoholic. makes a perfectly satisfactory solution with collodion. He has done it.

Small Pills.

131/20. *W.* had a prescription for calcium sulphide pills handed to him by a physician, who remarked, "Make them as small as possible." The prescription was :—

Calcii sulphidi	gr. iv.
Ext. gentianæ	gr. vj.

Fiat pil. xxiv.

In such a case as this the dispenser is wise in departing from the rule that pills containing a fraction of a grain of active ingredient should be made up to 1 grain with excipient. In this case a ½-grain pill is obviously the size to aim at.

LEGAL QUERIES.

59/132. *R. H. R.*—If the Pharmacy Acts Amendment Bill (G.B.) should pass, it would give the Pharmaceutical Society power to fix a date, after which no one would be admitted to the Minor examination until he had passed through a certain curriculum of study at a recognised school. They would probably fix that date some three years ahead.

53/133. *Scabies.*—The assumption of the title "manufacturing chemists" by unqualified persons is probably illegal, but it would not be wise to prosecute on it when the persons using it were acting in a *bonâ-fide* manner. See comments on the Pharmacy Act in the legal treatise in last CHEMISTS' AND DRUGGISTS' DIARY.

74/129. *Peep-o'-day.*—Indentures are not required of candidates for the Minor examination. Your certificate of the service of your son in the business will be sufficient.

44/137. *Medicus* writes:—"A is a medical man, and holds, with other qualifications, the licence of the Apothecaries' Society. B is a Minor Associate of the Pharmaceutical Society. A, having capital at command, proposes to establish a chemist and druggist's business, which is to be managed by B, and conducted in B's name? Would either party contravene the law by such action, or commit a breach of ethics?"

[We are not authorities on ethics. There is no objection to the course proposed; both parties are entitled to carry on the business of a chemist and druggist.]

19/131. *J. C.* says:—"An assistant engaged with a chemist indoors signed an agreement not to oppose him after leaving him within two miles for a period of three years. The master disposed of his business, the assistant staying on with the new proprietor at the same remuneration as he had from the former master. Does the agreement hold good with the second proprietor?"

[An agreement in restraint of trade is always construed very strictly, and the only person who could apply for an injunction against the assistant is the first proprietor. We assume, of course, that there was no new agreement between the assistant and the second proprietor embodying the terms of the old agreement.]

Jury Service.—Mr. G. S. V. Wills, Principal of the Westminster College of Chemistry and Pharmacy, informs us that, finding his name on the list of jurymen for the district where he resides, he appealed, and his case was heard at the Surrey Sessions House, Newington, before Colonel Ross. Mr. Wills claimed exemption as a pharmaceutical chemist. The magistrate put several questions to him as to his daily occupation. Did he keep an open shop and practise as a pharmaceutical chemist? Could the public come into his establishment and make a purchase? &c. The reply being in the negative, the magistrate, after a good deal of hesitation, said that the name must stand on the list.

[We are not aware that a similar case has occurred before, but there is little doubt the magistrate's decision is correct, the exemption being granted to "registered pharmaceutical chemists actually in practice." A pharmaceutical chemist acting in some other capacity would not be entitled to exemption.]

7/137. *Equus.*—If you sell a preparation of aconite as horse-powders you are legally required to label the article "Poison," and to proceed in accordance with the regulations for Part 1 of the Schedule.

MISCELLANEOUS INQUIRIES.

A large number of correspondents ask us for formulæ which have already been published in this journal. It is not fair to more careful readers that we should frequently repeat such information, and so long as the back numbers containing the formulæ or replies required are in print we must decline to do so. Back numbers of our weekly issue can be obtained from the publisher at 4d. each.

Fever Drops for Children.—See July 30, 1887, page 150. (136/4. *Tulip*)

Gripe Water.—See May 5, page 604. (137/53. *Apprentices.*)

Brush Polish.—January 29, 1887, page 155. (128/5. *Wild Cherry.*)

Books.

Timon.—**Dentistry.**—Gorham's "Manual of Tooth Extraction" (Kimpton, 1*s.*), Tome's "Manual of Dental Surgery" (Churchill, 14*s.*). One of these may suit you. See last week for *Veterinary Treatise.*

137/3. *X.*—A good book for getting a knowledge of homœopathic pharmacy from is Ashwell's "Companion to the Homœopathic Pharmacopœia" (Keene & Ashwell, 3*s.* 6*d.*).

136/55. *Cæsar.*—For **Sulpholine** see January 7, page 30. If it is a book containing formulæ for different complaints that you require, you cannot do better than get Beasley's "Book of Prescriptions" (Churchill, 5*s.*). In the current volume we have named other books which are useful for counter-prescribing.

72/135. *H. S. D.*—The electric light is not obtained by frictional electricity. On the subject of electric lighting we would recommend "Electric Light," by Du Moncel, translation from the French, by George Routledge, and published by George Routledge & Sons. Price, 2*s.* 6*d.*

48/128. *S. J. E.*—We know no book published containing exclusively information respecting medical batteries. Try "Intensity Coils," by "Dyer," published by Thoburn & Co. 136 Salisbury Square. Price, 1*s.*

123/50. *Zero* asks our opinion on the following matters:—(1) The following mixture (**Liver Tonic**) remains bright about three weeks; it then becomes turbid. What improvement would you suggest to make the tincture permanently bright and clear?

Cochineal	gr. iij.
Tr. buchu	ʒiij.
„ senegæ	ʒiij.
„ lupuli	℥ss.
Liq. tarax.	℥ss.
Tr. capsici	ʒj.
Podoph. resinæ gr. iv. ex S.V.R.	℥ss.
Tr. nucis vom.	ʒij.
Inf. quass. conc.	℥ij.
Aq. dest. ad	℥xvj.

M. Filter and bottle.

[The fault of this mixture is that it contains no alkali. If the podophyllin and cochineal are digested in ½ oz. of spt. ammon. arom. for a day, then all the tinctures added to this, lastly, the infusion and the water, and the whole now shaken up with 2 drachms of French chalk, and filtered, it will be found that it will keep better. A further improvement is effected by the addition of ½ oz. spt. chloroformi.]

(2) Which do you consider the best and safest mixture as an **Anti-Toothache and Neuralgic Remedy**? One contains 5 grains butyl chloral and 10 minims tr. gelsem. for a dose. The other ⅛ gr. morph. mur. and 1 gr. quin. sulph. for a dose. Both are ordered to be taken every two hours until pain ceases.

[Neither of these mixtures is safe if given every two hours, but the first named is certainly the better of the two, while 1½ grain of quinine and 8 minims of tincture of gelsemium will be found better still. 8-grain doses of phenacetin and 10-grain doses of antipyrin are excellent.]

(3) Do you consider the formula for **Nursery Insecticide** as under a good one for a cheap trade:—

Inf. quassiæ conc. (1-7), ad	Oj.
Glycerini	ʒj.
Acet. cantharid.	ʒiij.

M.

[Yes, but the same quantity of acet. staphisagnæ instead of acet. cantharid. is an improvement. Also add a little lavender water.]

(4) **Bay Rum.**—Oil of bay, ʒvj.; oil of pimento, gtt. xxv.; acetic ether, ʒj.; rectified spirit and Jamaica rum, of each, 1 gallon. Mix. Modify this to suit your price by substituting water for spirit and rum.

11/132. *Spes.*—See reply to "Menthol." There is no demand in America for English assistants. As a rule, naturally the native article is preferred.

Dentistry.—*Fides* (132/62) would be glad to hear reliable experience of cocaine for dentistry. For some years he has given nitrous oxide with eminent success; but all will not submit to be under its influence, and some simple local anæsthetic seems requisite. He has had 150 operations, and no trouble whatever, no doctor present at any of the cases, and from first to last only three minutes are required. He would be glad to know of the best syringe for alveolar injection, and probable duration of the anæsthesia.

Food for Soft-billed Birds.—*W. H. M.* (132/74) asks:—"Will a correspondent oblige me with a formula for the preparation of a food for nightingales, blackcaps, robins, &c., in a dry form, such as is sold in tins by Capelle, of Hanover, Sabin, and others. I have a difficulty in ascertaining if seeds of any kind are used, and what kinds; and am asked to prepare a few pounds owing to the supply in tins being so often unreliable."

124/19. *W. J. A.*—Please select a better *nom de plume* the next time you write. The sample of shaving-cream which you send is simply the ordinary shaving-paste coloured with aniline violet and perfumed with lavender. See page 521, October 22, 1887, for a formula. The **Cold Pepper for Canaries** is the coarse powder of one of the numerous varieties of feebly pungent capsicum.

126/40. *J. H.*—See reply to "W. J. A."

19/23. *G. J. W.*—(1) We do not have the formulæ of Huggett's Hypodermic Solutions. (2) We question if you can make **Claret** cheaper than you can buy it. The basis of the artificial stuff is rich old cider coloured with logwood, and flavoured with œanthic and nitrous ethers. Although to the chemist all things are pure, or are supposed to be, we cannot say that we consider this concoction "a very good drink for a chemist." "Better to bear the ills we have" (that is, 1*s.* claret) "than fly to those we know not of."

135/57. *A. Oglesby.*—The Royal Veterinary College, London, stipulates that the certificates of the Pharmaceutical Preliminary examination which it accepts must have been obtained within four years before the date of matriculation as a veterinary student. We fail to see how you make out that a certificate obtained in 1886 does not come within this period.

Black Aniline Hectograph Ink.—In reply to a correspondent in our issue of September 15, Mr. C. Krause, of Otterup, sends the following formula:—"Dissolve 25 parts of nigrosin in 95 parts of boiling water, and when cold add 5 parts of acetic acid."

7/136. *Medicus.*—You had better discuss the question of salaries in wholesale houses with a representative of one of them, as the value of an assistant or clerk to such depends so largely on experience and qualification. Perhaps 30*s.* per week would be the beginning salary in most cases for a young man acquainted with the drug trade at the wet or dry counter. We should think it would be next to impossible to get a situation in a wholesale drug house for half-day work.

132/52. *Poultry.*—The **Poultry Food** appears to be composed of whole wheat meal, ground egg-shells, fenugreek, and cumin (or anise).

Timon.—**Iron and Pennyroyal Pills.**—Sulphate of iron, ʒj.; carbonate of potash, gr. xl.; powdered myrrh, ʒij.; oil of pennyroyal, ♏xx. Rub up the oil with the myrrh and carbonate of potash, then add the sulphate of iron; mass with honey, and divide into 5-grain pills. Dose—two twice daily.

128/29. *P. H.*—**Chilblain Embrocation.**—Liniment of aconite, 1 oz.; compound liniment of camphor, 2 oz.; liniment of soap, 3 oz. Mix. To be well rubbed in at bedtime.

133/57. *B. Crusher.*—The odour of new leather is due to the fish oils used in currying, and can only be effectually removed by exposure to the air.

Haarlem Oils.—Further in reply to "Heder," Mr. Thomas Latham, of New York, writes:—"If 'Heder' offers 'Dutch drops' for Haarlem oils, he is correct, in spite of his American customer. Probably 'Heder' did not offer the drops in the original bottle as they are exported to this country. They are a very popular medicine here for gonorrhœa and kidney troubles, and are put up in bottles containing about fl. ʒiij, which are wrapped in the accompanying circular."

134/5. *A. Marsden.*—We have not seen the **Germ Flour or Bread** which you speak of.

132/41. *M. C.*—For elegance you cannot do better than use the "Wenham" lamp for your shop. The albo-carbon is also an excellent light, a No. 1 burner giving as much pure white light as an ordinary No. 4.

134/45. *B. & S.* **Horse Blister** (Liquid).—The following is from our 1883 Diary:—

Powdered cantharides	4 oz.
Euphorbium	1 „
Turpentine	1 pint.

Digest for a week and filter. Methylated spirit may be used instead of turpentine.

134/54. *Sanitation.*—The "crystal" which is so much used in urinals at present is camphor. Nothing else is required, but a piece of "Sanitas" or carbolic soap would not be out of place.

137/3. *X.*—**Homœopathic Tinctures.**—Aconite is made from freshly-collected leaves and flowering tops, and from fresh or dry root; menstruum, proof spirit. Chamomile from the flowers; menstruum, 20 o.p. spirit; and nux vomica from the seeds; menstruum, 20 o.p. spirit. All mother tinctures are made to be equal to 1 of the dried substance in 10, by the method of percolation. When fresh plants are used, a weighed portion of them is to be dried, and the loss of moisture ascertained. For example, if 4 oz. of the aconite leaves contain 2 oz. of moisture, this moisture is to be reckoned as part of the water required to dilute the rectified spirit to make proof spirit.

136/70. *Yorkshireman.*—(1) We presume that **Barrow Evans's Hair Restorer** is similar in composition to other preparations for the same purpose. See page 344. (2) We do not have a formula for **Owbridge's Lung Tonic.**

136/48. *F. E. Carpenter.*—**Hayward's Hand Grenade** Solution is said to have the following percentage composition:—Chloride of calcium, 18·329; chloride of magnesium, 5·7; chloride of sodium, 1·316; bromide of potassium, 2·179; chloride of barium, 0·265; water, 72·211, with traces of iron and aluminium chlorides.

136/63. *Peak Forest.*—See reply to "Paperine," page 426.

137/8. *Mahtal.*—**Brown Hair Dye.**—The following is the correct formula of this:—Pyrogallic acid, ℥ss.; sodium sulphite, ʒss.; rectified spirit, ℥j.; water, ℥iij. Dissolve the acid in the spirit, the sulphite in the water, and mix. This solution is used alone.

137/35. *Ajax* (Southsea).—**Soluble Saccharin** is made by adding sufficient bicarbonate of soda to neutralise it. See the formula for "Elixir Saccharini" B.P.C. in our issue of September 8.

135/34. *W. A. J.*—**Blood-purifying Mixture.**—The following is a good formula:—

Potassii iodidi..	gr. xl.
„ chloratis	„ xxx.
Liq. arsenici hydrochlor.	♏xxiv.
Spt. chloroformi	ʒiij.
Dec. sarsæ comp. ad	℥vj.

ʒss. ter die.

132/24. *Soda Water.*—There are no less than four references in last volume regarding soluble essence of lemon and the solubility of oil of lemon. See pp. 233, 497, 766, and 856; these will give you all the information required. When a solution of oil of lemon in absolute alcohol is added to syrup the oil ought to separate if the syrup is of greater bulk than the alcoholic solution.

Distilled Water.—*S.* (135/66) writes:—"I want to provide myself weekly with 25 gallons of distilled water for dispensing use. Will some of your practical readers advise me how best I can manage this, whether by a large still or a small steam boiler and condenser? Not to make the operation tedious, the apparatus should produce not less than 6 gallons per hour. Mention should be made of cost."

137/15. *Ajax.*—(1) A good formula for syrupus croci was given in our issue of August 4, page 159. (2) Gelatinised tincture of kino cannot be made usable.

133/48. *Fac Instanter.*—**Bicycle Enamel.**—Sandarac, 4 oz.; elemi, 1 oz.; benzine, q.s. Digest the resins in 15 oz. benzine until dissolved, strain, and make up to 1 pint. Your letter on the use of the bicycle is written on both sides of the paper, and cannot, therefore, be inserted.

137/53. *J. H. R., &c.*—Dr. Hargreaves, in his "Practical Manual of Venereal Diseases," gives the following formulæ for **Spermatorrhœa Mixtures**:—

Potassii bromidi	ʒss.
Tr. gelsemii	ʒij.
Ext. ergotæ liq.	ʒij.
Tr. belladonnæ	ʒiss.
Syrupi zingiberis	ʒiv.
Aquæ ad	℥viij.

M.

℥j. twice daily, and the same at bedtime.

When this begins to lose its effect give:—

Potassii bromidi	ʒss.
Tinct. hamamelidis	ʒij.
„ cocæ	℥ss.
„ belladonnæ	ʒj.
Syr. zingiberis	ʒss.
Aq. camphoræ ad	℥viij.

M.

Dose as above.

As an occasional tonic compound syrup of hypophosphites is excellent.

52/124. *J. N. C.*—The solutions for D'Or's battery are 2 oz. chloride of zinc, dissolved in the porous pot full of water, and in the outer cell, with the crushed carbon, an over-saturated solution of bichromate of potash in water, to which has been added about 15 per cent. hydrochloric acid (slowly added and stirred well).

Information Wanted.

[*Replies to the following requests are solicited by correspondents of* THE CHEMIST AND DRUGGIST.]

24/123. The address of the importer of mineral silicon or name of the mine in North America, in the State of Nevada, from which it is obtained.

129/20. Essence of cocoa-nut for flavouring biscuits, &c.

Will some subscriber kindly inform "Lindum" (130/8) what the following are:—Ross. abberine, canasa, flour butteras, buckantis. These are to be boiled together for half an hour, and, made up to ½ pint, form a splendid liniment for horses.

124/63. Formulæ for a cheap tomato sauce.

134/11. What sort of paper is used for wrapping 1*d.* blacking—such as Berry's—and where can the same be printed?

132/24. Formula for hook-dressers' varnish.

131/36. Composition of Dr. Lorme's remedy for dipsomania.

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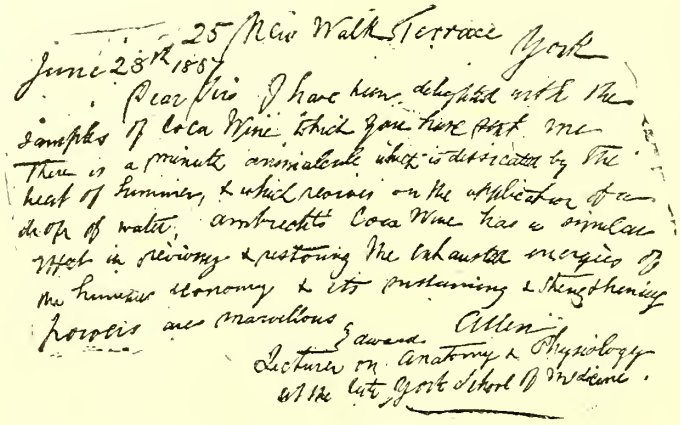
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BY this method a prompt and ready means is available for obtaining vapours of an extremely attenuated character, of high diffusive powers and greatest activities, either in the dry state or accompanied with water vapour. The materials vaporised or rendered gaseous are not decomposed in the process, but are constant in character, and their energies are wonderfully increased. They are, therefore, conspicuously adapted for loading given air spaces with medicinal matters, so that the patient may receive constant influences therefrom in the act of continuous breathing; or otherwise by direct inspiration by means of a simple arrangement as the volatilised principle issues from the Cone. **The Cones are always ready for use, and require no auxiliary appliances whatever.** The Cones have been submitted to a large number of the leading Members of the Profession, Hospital Authorities, &c., and have received their unanimous approval.

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PINI SYLVESTRIS	OXYGEN GAS	HYDRARG. SULPHURET
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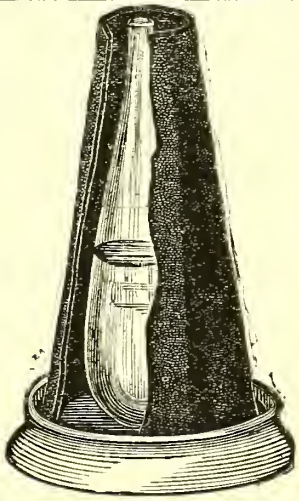

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"THE MOTHER'S FRIEND"

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Morton's Powders for Children of all Ages,

Especially in Teething, Fits, Convulsions, Worms, Measles, Scarlatina, Hooping Cough, Croup, Difficulty of Breathing, and all Feverish Attacks.

Upwards of Forty Years of unparalleled success have gained for this fine Alterative Medicine the highest approbation of every Family into which it has been introduced. "THE MOTHER'S FRIEND" Powders have also been extensively used and proved to be very valuable for ADULTS, since they remove all oppressive accumulations on the Chest, regulate the secretions of the Liver, Kidneys, and Bowels, and by purifying the Blood improve and invigorate the health.

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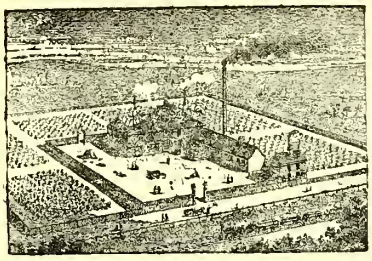
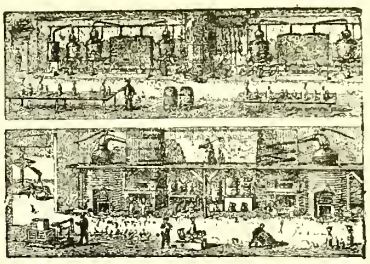
N.B.—H. MORTON finds it needful to call especial attention to his Registered Title "THE MOTHER'S FRIEND," together with the Registered Device which distinguishes his Proprietary Medicines. A Maltese Cross with the letters H.M.R.K. enclosed in a diamond, and which, as well as the title "THE MOTHER'S FRIEND," cannot be in fringed with impunit.



PEPPERMINT, LAVENDER, & CAMOMILE OILS.



All those who have to buy and use the above Oils ought to take every care to get the same from the Growers and Distillers direct, guaranteed pure, as these Oils are very often adulterated to a great extent. We advise, for this reason, buyers to ask for **Jakson's Brand,** as their Oils are all grown in the district of Mitcham, and they are **Guaranteed Pure.**

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Messrs. Roberts & Co. beg to inform the Trade that they are Agents for all the principal French and Foreign Specialities and Medicines, a large supped of which they have always on hand, and can supply on very favourable terms. They are in daily communication with their Paris House, and can offer exceptional facilities for procuring New Medicines, &c., &c., with very little delay. The following is a list of a few that they name *au hazard*, any that have a large sale :—

Retail	Per doz.
4/6..Alcool de Menthe Ricqles	41/5
2/9 Ditto ditto	..21/8
2/9..Aubergier's Syrup	26/3
2/9.. „ Pâté	15/4
6/6..Bay Rum	57/
5/6.. Ditto	31/
2/ ..Belloc's Charcoal	15/4
1/9.. „ Lozenges	14/5
4/6..Blancard's Pills	32/5
2/6.. Ditto	18/
8/ ..Brou's Injection	27/
8/ Bugeaud's Wine	36/
4/ Bully's Vinegar	32/5
2/ .. Ditto	16/3
4/6..Cande's (Lait Antéphiliq.)	39/8
4/6..Capsules Bromide Camph.	45/

Retail	Per doz.
4/6..Capsules Matico	36/
4/6.. „ Raquin	36/
4/6.. „ Mathey Caylus	27/
4/6..Chassaing's Wine	38/9
2/9.. „ Pills	24/4
4/6..Clin's Bromide Cam. Dragées	45/
5/ ..Eau Botot (Genuine)	40/1
3/ .. Ditto	24/4
2/6..Espic's Cigarettes	13/6
6/ ..Elixir de Coca..	56/9
2 9..Flon's Syrup	22/6
2/ ..Gayetty's Paper	15/4
2/3..Granules Arsen. Acid	13/6
2/9.. „ „ Iron	14/5
2/9.. „ „ Soda	15/4
2/9..Grimault's Syrup Lime	23/5

Retail	Per doz.
2/3..Guyot's Goudron	18/
11/..Laville's Gout Tincture	..91/10
11/.. „ „ Pills	91/10
2/3..Papier Fayard	13/6
1/1½ Ditto	7/3
4/ ..Papier Fruneau	24/4
2/3.. Ditto	14/5
1/9..Pâté Aubergier	15/4
1/9.. „ de Berthé	15/4
2/9.. „ de Coca	24/4
1/9.. „ de Georgé	14/5
1/1½ „ Ditto	9/
1/6.. „ de Nafé	13/6
1/9.. „ Regnauld	14/5
7/ ..Pierlot's Valerian	59/5
2/9..Rahuteau's Drgées Ferrug	24/4

Retail	Per doz
7/0..Rahuteau's Elixir Ferrug.	65/
2/9.. „ Sirop „	24/4
4/0..Racahout	31/
4/6..Reynal's Bougies	37/10
2/9..Ricord's Injection	24/4
4/6.. „ Capsules	36/
9/ .. „ Syrup..90/; 4/6;	42/
1/6 Star Paper	11/
2/9..Vallet's Pills	22/6
1/9.. Ditto	14/5
4/6..Veloutine (Whte,Pnk,Yel.)	37/1
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SOZOIODOL is most conveniently used in the form of the Acid Salts of Di-iodoparaphenolsulphonic Acid, the Chemical nature of which permits of combinations with almost every metal, opening thus a vast field for therapeutic treatment, and enabling the Physician *to combine the action of metallic bodies with that of the antiseptic substance proper.*

SOZOIODOL has been applied with great success in RHINOLOGY, LARYNGOLOGY and DERMATOLOGY; also in DENTISTRY.

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ZINC- AND MERCURY-SOZOIODOL.

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EXCELLENT results have been obtained by the application of SOZOIODOL in the treatment of Diseases of the GENERATIVE Organs, such as GONORRHŒA and SYPHILIS.

SOZOIODOL surpasses Iodoform by its promptitude of action in syphilitic, tuberculous, and scrofulous ulcerations.

SOZOIODOL COMPOUNDS are extremely efficacious in the treatment of obstinate diseases of the skin, chronic catarrhs of the nose, etc. and have also proved very beneficial in obstetrical practice. The Sozoiodol Salts have been applied both in solution and in combination with Lanolin, Vaseline, Sugar of Milk, Talc, Starch, and with much success in the pure state.

A NEW AND MOST POWERFUL ANTISEPTIC,

Promoting the process of healing extremely well.

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DALMATIAN INSECT POWDER

(FROM CLOSED FLOWERS).

1-cwt. Case of Tins Mag. Cit. Gran. Effer. at 6½d. per lb. | 28-lb. Tins Mag. Cit. Gran. Effer. at 7d. per lb.

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NEW AMERICAN OIL OF PEPPERMINT, NOT deprived of its Menthol, 8s. 9d. per lb. An original 22-oz. bottle free by parcel post for 12s. 6d.

8-oz. Capsuled **E. I. Mustard Seed Oil,** branded "Star of India" on Capsule, bottle ... ... 8/9 per doz.
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28-lb. tins **Dalmatian Insect Powder** ... 1/2 per lb.
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10-lb. tins **Super Ess. Lemon** ... ... 5/6 „ „
7-lb. pottle **P. Rhei E. I. Elect** ... ... 3/- „ „
56-lb. **Bale Senna T.V.** ... ... -/3¼ „ „
4½-gallon tins finest non-freezing **Norwegian Cod Liver Oil** ... ... 4/6 per gal.

CIRCASSIAN SWEET OIL. — 40-gallon barrel, bright and clear as **COLZA OIL—1s. 6d.** per gallon (for Hair Oil, &c.); sample 9-gallon tin for **15s.**

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Discovered to be a general Anæsthetic by Dr. RICHARDSON in 1887.
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COMPOUND ANÆSTHETIC ETHER,
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Dr. RICHARDSON'S Formula), for removing Naevi, &c. In 1-oz. & 1-oz. Bottles, with elongated Stoppers for applying the Caustic, 2s. 6d. & 4s

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For promoting the Healing of Wounds by the first intention
In 2-oz. and 4-oz. Bottles, with Brush, 2s. 6d. and 4s. 6d.; 15-oz., 12s.

CHARCOAL CAPSULE
Containing Pure Vegetable Ivory Charcoal.
In Boxes, 2s. 6d. each.

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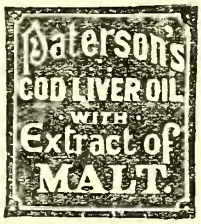
A CAREFULLY PREPARED EMULSION OF

PUREST COD LIVER OIL

WITH MALT EXTRACT.



Pronounced by leading Physicians to be the most valuable form of Cod Liver Oil ever produced. It is pleasant to take, and has no fishy smell or taste. There is no nausea experienced and it is greatly relished by Children and Invalids.

This valuable combination forms a

HIGHLY NUTRITIOUS FOOD.

It is many times more strengthening than any other form of Cod Liver Oil, and is simply invaluable for bringing the system up to par in all cases of Consumption and Wasting Diseases and General Debility.

The moderate price—

1s. 6d., 2s., and 3s. per Bottle,

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GUARANTEED PURE.

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"PALATABLE" COD LIVER OIL. **"PALATABLE" CASTOR OIL.**

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WILL STAND ANY CLIMATE.

Pleasant to the taste. Specially valuable for delicate women and children. Recommended by the most eminent physicians, and used in the leading Hospitals in the United Kingdom. See Medical opinions.

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DRUGS, CHEMICALS, AND PHARMACEUTICAL PREPARATIONS.

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THE HOP BITTERS COMPANY, LIM.

VERSUS

ALBERT N. BECK, HASTINGS.

BY AN ORDER made on the 13th day of July, 1888, by the Honourable Justice Stirling, in the Lord Chancellor's Court (Chancery Division), High Courts of Justice, the Defendant was perpetually restrained from "Infringing "the Plaintiffs' Trade Mark, and from selling or offering for sale any "HOP BITTERS, TONIC BITTERS, or other compound contained in "bottles having affixed thereto any labels similar to or only colourably "differing from the bottles and labels used by the Plaintiffs, or so contrived "or prepared as to represent or lead to the belief that the compound manu-"factured or sold by the Defendant is of the Plaintiffs' manufacture."

N.B.—Any infringements on our rights or trading on our reputation by vending compounds as substitutes for HOP BITTERS will be summarily dealt with.

We would advise the Trade not to be induced under any pretext to sell or offer for sale compounds in imitation of our HOP BITTERS, but rather to trade only in the genuine article, which is the most honourable, and, in the long run, most profitable. Printed matter will be sent to any Chemist on application, and all inquiries promptly attended to.

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FOR BATH AND TOILET PURPOSES.

The **ORIENTAL AROMATIC SALTS**, when dissolved, render the water very soft, and impart a most agreeable and refreshing perfume that can be diffused with advantage in a room where the air is close and depressing.

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The **ORIENTAL AROMATIC SALTS** are unrivalled for beautifying and preserving the Skin, rendering it soft and velvet-like; and for keeping the complexion perfectly bright and clear.

They are indispensable in the Bath as well as in the Bedroom, and should be used by everybody.

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Are giving great and general satisfaction, and, being most attractive in get up, sell at sight.

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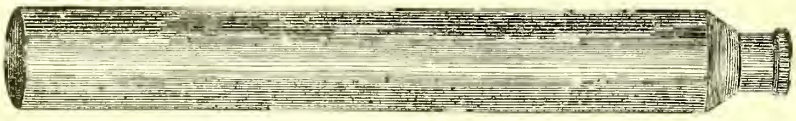
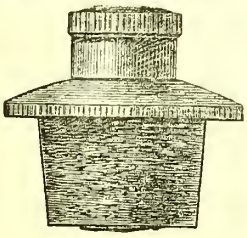


COLLAPSIBLE TUBES

OF ALL SIZES.

For Perfumes, Artists' Colours, Soaps, Cosmetiques, Creams, Oils, Varnishes, &c. These Tubes are inexpensive and portable, and may be applied to many useful purposes besides those above mentioned.



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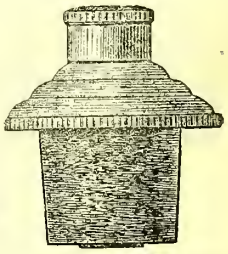
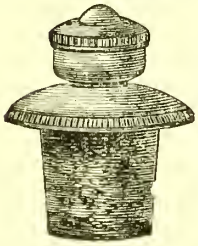
THE PORTABLE METAL SPRINKLER STOPPER,

With Cork fitted thereon for bottles of any size, and having apertures of various dimensions, especially adapted for Perfumes, Hair Washes, Lime and Glycerine Essences, &c These handsome stoppers give a character and finish to the most ordinary bottles to which they may be applied. Gilt or plain; and put up if required in handsome glass lid boxes, suitable for shop counters and show cases, at moderate prices.



THE "TORSION" PATENT SPRINKLER



No. 18A

The two designs, Nos. 18A and 19A, are those to which we direct special attention, as sizes being in general use other sizes will follow promptly to meet all requirements, on which Caps with two or more holes will be introduced to meet the public taste.

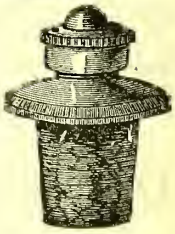
Particular attention is called to the latest improvement in our Patent Metallic Stopper, the "Torsion."

This New Stopper adheres to the design of the original patent, which has been universally acknowledged as an ornamental and inexpensive article for the Toilette, as possessing all the advantages of a "Permanent and Indestructible Stopper, suitable for Bottles of all Sizes and Shapes," with the additional security it affords, that the Cap can never be entirely unscrewed, consequently it cannot be lost. It is specially effective as a Sprinkler, while giving a more prompt and copious, yet economic, supply, through the improved action of the Cap. Such combined advantages, in an article of exquisite finish, have long been desired, and it is thus submitted for general approval, and its usefulness when tried will be appreciated by all.

Illustrations, Price Lists, &c., can be had on application, or through any Wholesale House in town or country. All orders received direct will be promptly attended to.

CAUTION.—All Stoppers of our Manufacture are made of Pure Tin, and have the name of H. BROOKS & CO. stamped on the under side of the rim.

All Tubes are made of Pure Tin unless specially ordered of Mixed Metal, from the smallest size up to 13 in by 2⅜.



No. 19a.

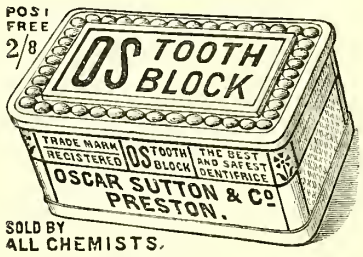
OSCAR SUTTON & CO., Preston, Lancashire, England.

O.S. TOOTH BLOCK.

REGISTERED OS TOOTH BLOCK TRADE MARK.

Be particular to observe that the Registered Trade Mark and the name **"OSCAR SUTTON & CO."** are stamped on **all that are genuine,** as **worthless imitations are in the market.**

Prepared from materials recommended by several of the most eminent Dentists of the day, at a Meeting of the Odontological Society, held in London, February 1875, when the important subject of Dentifrices was discussed.



THE BEST AND SAFEST DENTIFRICE.

TWO THOUSAND TESTIMONIALS.

BATES' SULPHUR SALT (REGISTERED.) AND FRIZZETTA (REGISTERED.)

Price, 1/9 & 4/6.

RETAIL 1/6. RETAIL 1/6.

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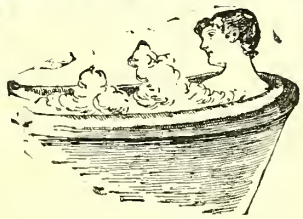
Telegraphic Address—"FRIZZETTA MANCHESTER."

SUPPLIED BY ALL PATENT MEDICINE HOUSES.

GOLD MEDAL, HYGIENIC EXHIBITION, OSTEND, 1888.

PASTA MACK.



By using this new and excellent preparation a most delicious BATH AND TOILET WATER will be obtained. Pasta Mack *SOFTENS the WATER* and **BEAUTIFIES** the **COMPLEXION**

TRADE MARK.

Of all Chemists and Perfumers.

BEWARE OF WORTHLESS IMITATIONS.

Sole Manufacturer, H. MACK, ULM a/D.

Wholesale Agents for Great Britain, OSBORNE, GARRETT & Co., London, W.

TETLOW'S AMERICAN FACE POWDERS.

6d. "SWANDOWN." 6d. — 3/6 per doz. — *A Sample Bottle of perfume given with each box of Swandown.*

1/- "GOSSAMER." 1/- — 7/- per doz. — *A Metal Puff Box given with each box of Gossamer.*

Chemists will find these articles most attractive for the Counter; they sell readily wherever shown. Quality is proved by constant and increasing sale. Supply of free samples with each order of 1 doz.

Order through your Wholesale House, or direct from London Depôt—

HENRY C. QUELCH, 19 Ludgate Hill, LONDON, E.C.

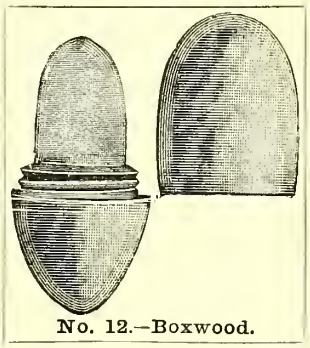
London Chemists and Shippers are invited to call and inspect these articles.

THE CHEAPEST 6d. MENTHOL CONE.

Manufactured of Finest Japan Menthol. Guaranteed perfectly pure

TRADE, 3/- per doz.

3 *dozen Carriage paid*



No. 12.—Boxwood.

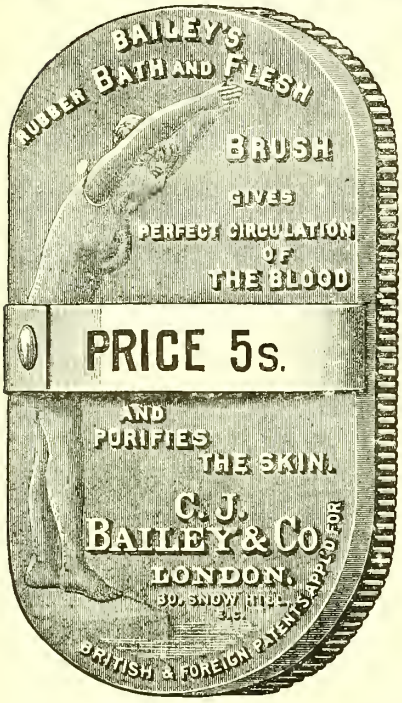
Other Cones to Retail 2*d.*, 3*d.*, & 4*d.* each, equally cheap.

Write for Price List

SAMPLE POST FREE on receipt of business card.

CASTLE MENTHOL CO., 11 Furnival St., Holborn, LONDON.

BAILEY'S RUBBER FLESH BRUSH.



We have received for trial and notice from Messrs. Bailey & Co., 30 Snow Hill, London, E.C., specimens of their bath and flesh brushes. These are entirely formed of vulcanised india-rubber. The back is about one third of an inch in thickness, and is sufficiently flexible to adapt itself to the curved surfaces of the body and limbs. In the place of the bristles of the ordinary brush is a series of small india-rubber rods, nearly two thousand in number. These have a very efficacious action in removing dirt from the hands, and in rubbing away the dead cuticle from the surface of the skin of the body. The action of the brush used with soap and water more nearly resembles shampooing than ordinary rubbing. It is admirably adapted for use after exercise, being more detergent than a sponge or towel, and producing a very pleasant effect after fatigue. For athletes, it is certainly one of the best flesh brushes we have seen, as it leaves the skin in a condition most favourable to its healthy action.—*Field*, April 14, 1888.

BAILEY'S RUBBER BATH BRUSH.

Valuable as the use of the flesh brush is when employed in the bath in removing the outer or dead portions of the cuticle, and so promoting the healthy action of the skin, its use is not unfrequently objected to, on account of the redness it produces, owing to the bristles irritating the skin. Messrs. Bailey & Co. have forwarded to us a bath brush formed, so to speak, of bristles or slender rods of india-rubber, many hundreds in number. These are set in a flexible back, which adapts itself to the curves of the body. When used in the bath with any ordinary soap its action in rubbing away the effete portions of the skin, and leaving a beautifully smooth surface, is most satisfactory, and it produces a sensation of comfort that must be felt to be fully appreciated. The most skilled shampooer could not obtain a more marked effect. The gentle rubbing friction of the brush not only promotes the circulation of the blood, but by causing a due action of the skin, relieves the congestion of the muscles or internal organs, and produces a feeling of relief after fatigue that is most satisfactory. We can recommend this new bath brush very strongly. Smaller brushes are also made as toilet brushes, which are most efficacious in cleaning and whitening the hands. These brushes may be obtained of any druggist or dealer in toilet articles, the wholesale depot being 30 Snow Hill, E.C.—*Queen*, April 14, 1888.

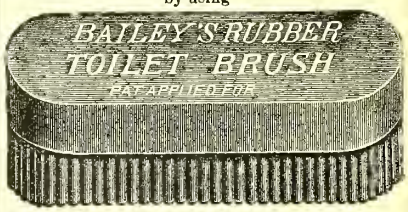
Price TWO GUINEAS per dozen.

Send us postal order and we will forward by return post.

For Sale by all Chemists.

CLEAN HANDS

For everyone, no matter what the occupation, by using



It removes **Ink, Tar, Grease, Paint, Iron Stains,** and in fact everything foreign to the colour of the skin, simply by using with soap and water. It never becomes foul or carries any contagion, and will not injure the most delicate skin, as is done by the use of Pumice Stone, Bristle Brushes, &c. **Printers, Penmen, Typewriters, Blacksmiths, Machinists, Shoemakers, Painters, Farmers,** and all whose bands are stained by their labour can cleanse them easily without rupturing or weakening the skfn.

Price One Shilling; large size, Two Shillings. Send us postal order and we will forward by return post. For sale by all Chemists.

Small size, 8s., and Larger size, 17s. per dozen.

C. J. BAILEY & CO.,

30 SNOW HILL, LONDON.

C. J. BAILEY & CO., Manufacturers, 30 Snow Hill, LONDON, E.C.

The following is respectfully commended to the Notice of Exporters:—

FOWLER'S
CORN, BUNION, & CHILBLAIN
PLAISTER,

PRICE 1s. 1½d. PER BOX, [2]

Has been extensively used in Royal and distinguished circles for over half a century, still maintaining its pre-eminence against all competition. *Relief immediate, cure certain, and comfort,* however tight the boot.

W. F. SMITH, M.P.S.,

280 WALWORTH ROAD, LONDON.

ORDERS FROM ABROAD EXECUTED THROUGH SHIPPERS.

IN WRITING MENTION THIS PAPER.

COMFORT FOR THE FEET.

Corns, hard or soft, and Bunions may be removed, and Enlarged Toe Joints may be reduced, by the use of the New French Corn Plaster. The sole importer and proprietor is M. F. Thompson, Homœopathic Chemist, 17 Gordon Street, Glasgow, from whom the Plaster may be had in Packets, by post, for Fourteen Stamps. Those who are troubled with the discomfort of Corns or Bunions will be glad to have attention called to this remedy, as it removes pain very speedily. It is a simple Plaster, which can be used without any inconvenience, as it takes up imperceptible room in the boot.

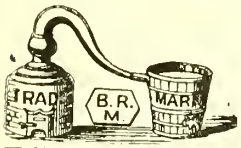
Wholesale, 9/ dozen, 4/ 9 half dozen, 2/6 quarter dozen.

All Post Free for cash with Order.

BEWARE OF ALL IMITATIONS.

Introduced 1855.] **ROBINSON'S CONCENTRATED WATERS.** [Introduced 1855.

One Ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopœia, and free from all Chemical impurity. They will keep good any length of time in any climate.



Aqua Anethi, Concent., 4/ lb.	Aqua Cinnam. Ver. Concent., 6/ lb.	Aqua Fœniculi. Concent., 4/ lb.
" Anisi " 4/ "	" Cassiæ " 4/ "	" Menth. Pip. " 4/ "
" Camphoræ " 4/ "	" Flor. Aurant. " 8/6 "	" " Ang. " 6/ "
" Carui " 4/ "	" Flor. Sambuci " 8/6 "	" " Virid. " 4/ "

Aqua Pimentæ, Concent., 4/ lb	
" Rosæ " 9/6 "	
" Rosæ Virgin " 10/6 "	

The above are put up in Bottles of ½lb. or 1lb. and upwards, each of which has the Inventor's Protection Label over Cork.

From the Lancet, *July* 15, 1882:—"Concentrated Waters (Robinson's, Pendleton, Manchester).—Among the samples sent to us we find Aq. Anethi, Anisi, Cinnam. Ver., Rosæ, and some dozen of others. Diluted with forty parts of water they form the ordinary waters of the Pharmacopœia. They are *excellent in quality*, and will be very useful, especially in country practice."

Wholesale Agents: Hearon & Co., London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR.

B. ROBINSON, MANUFACTURING CHEMIST, DISTILLER, AND BREWER OF BRITISH WINES, MANCHESTER.

HARTMANN'S HYGIENIC WOOD WOOL DIAPERS

Used in all the Principal Hospitals and Recommended by the Medical Profession.

For Home Use, Delicate Health, Accouchement, and for Ladies Travelling, they are *invaluable and indispensable.* They are Soft, Light, Antiseptic, and are supplied at the Actual Cost of Washing. Supplied by Chemists, Ladies' Outfitters, and Drapers.

Advertised at 1/- and 2/- per dozen. To Chemists, 9/6 and 19/- per gross. Pamphlets and Showcards on application.

The SANITARY WOOD WOOL CO., LIM., 11 HATTON GARDEN, LONDON.

THE WINTER IS COMING! BE READY WITH MENTHOL CONES!!!

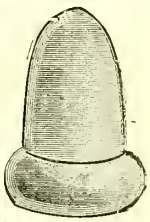
SHIRLEY'S New Price List of A1 BRAND Preparations will be found worth looking at, Post Free on application.

2d.—No. 100 Polished Willow Box. 1s. 5d. per doz. 13s. per gross

THE FOLLOWING SELL WELL:—

No.	Description.	Per doz.
1B 6d.	Blue Glass Jar, Metal Cap	3/3
9s 6d.	Boxwood, Skittle shape	4/
9c 1/6	" "	9/6
10 6d.	Oblong Willow Box, 12 on a card (reduced in price)	3/
11A 6d.	Boxwood, Pedestal shape	3/6
14A 1s.	" "	6/3
17s 6d.	" Draughtsman shape	4/
17L 1s.	" " "	6/6
19 4d.	" Egg shape	2/6
24 6d.	Boxwood, Bottle shape	3/6
26A 6d.	Glass Shade on China Stopper	3/6
27A 1s.	" " "	6/3
102 3½d.	Boxwood Pedestal, 2nd quality, 24/ gross	2/4
103 4d.	" " " 27/ "	2/9
104 4d.	" Barrel " 27/ "	2/9
106	Polished Willow Pedestal 21/ "	2/
107	" " " larger 23/ "	2/3
109	" " " very large 26/ "	2/6

ORDER AS A1 BRAND.



3d.—No. 101. Willow Acorn. 1s. 10d. per doz. 17s. per gross.

ANTI-CATARRH SMELLING SALTS

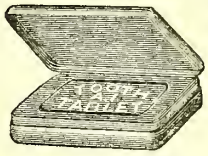
A very saleable article all through the Winter.

Free from Stamp Duty, no directions appearing on the label, the name being sufficient to explain its uses.

6d. size, in stoppered bottles, Watch shape, 4/ doz.

1s. size, in wide mouth actinic green bottles, 6/6 per doz.

TOOTH SOAP.



WHITE OR RED.

Highly scented and fragrant. Each Tablet in a hinged metallic box, 4/ doz. Loose Cakes, 3/ doz.

COCAINE & MENTHOL TOOTHACHE TUBE.

QUITE NEW.

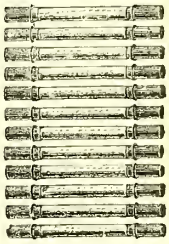
BOUND TO SELL.

Being composed of two such powerful anodynes is a sufficient guarantee of the efficacy of these tubes.

Each tube enclosed in a case for the pocket with cotton wool.

3/8 per doz.

COCAINE & MENTHOL TOOTHACHE TUBE 6P



DON'T FORGET TO WRITE FOR ILLUSTRATED LIST, JUST PUBLISHED.

STATE DISTINCTLY **A1 BRAND** when ordering any of Shirley's Preparations.

ARTHUR W. SHIRLEY, 30 PATERNOSTER SQUARE, LONDON, E.C.

CEMENT FOR BROKEN ARTICLES.

FOULKES' CEMENT,
AS USED AT ALL THE GOVERNMENT MUSEUMS.

Suited for any substance, from glass and china to leather, wood, or iron, and the articles joined bear washing in boiling water.

The large range of materials to which this cement is applicable, its transparency, strength, and facility in use, and the readiness with which it adheres, renders it, without doubt, THE MOST USEFUL EVER INVENTED. It is equally applicable to articles of the coarsest or the most delicate in construction.

The great success which attended its introduction, now more than 20 years ago, has given rise to a host of imitations, under as many various titles, some of these being of an exceedingly crude character, and most unsatisfactory to both vendor and buyer. The above celebrated Cement is uniformly prepared and neatly put up, and is guaranteed to remain unchanged in any climate.

Professor ARCHER, F.R.S., &c., Edinburgh.—"I can testify most unhesitatingly to its great utility in the various occasions which continually arise in Museum work for a first-rate Cement. I have invariably found yours superior to all others, and have extensively recommended its use to all my friends." **SOLD IN BOTTLES at 6d. & 1s.** (equal to three of the smaller)

Wholesale at the Patent Medicine Houses and Druggists' Sundriesmen, and all the Importing Houses throughout Australasia, or from [1]

W. J. FOULKES, Pharmaceutical Chemist, **BIRKENHEAD, ENGLAND**

"KAMPHORKALK"

A fresh Disinfecting Powder. It is a combination of soluble Chlorides and Camphor.

THE ADVANTAGES CLAIMED FOR IT ARE—

It is free from Poison. It is free from Smell (except a slight odour of Camphor). It is Soluble in Water It is White in Colour. It is not injurious to any fabrics. It is Effectual and Cheap.

EXTRACTS FROM REPORTS.

Professor WANKLYN says:—"It is a most powerful disinfectant."

Professor REDWOOD says:—"I have made several experiments for the purpose of testing the efficacy of 'Kamphorkalk' (Cooper's Camphorated Disinfectant), and am satisfied that it possesses the properties claimed for it, and that it may with advantage be used in cases where infective disease prevails; and for arresting the decay of animal or vegetable matter from which noxious effluvia may emanate."

Sold retail in pretty decorated Canisters, 2 lbs., 1/; 6 lbs., 2/ each. In 28-lb. Kegs and 1-cwt. Casks much cheaper in proportion.

Special Wholesale Agents—Messrs. Sanger & Sons, 489 Oxford Street, London.

Proprietor and Manufacturer— **ALFRED HORNBY, RICHMOND, SURREY.**

49

BETTS & CO., LIMITED

(ESTABLISHED IN 1840),

SOLE MAKERS IN GREAT BRITAIN OF

METALLIC CAPSULES,

AND PATENTEES OF THE

COLOURED SIDE MARK, LABEL, AND OTHER SPECIALITY CAPSULES

(For the Prevention of Fraud and Refilling of Old Labelled Bottles), as supplied to Bass & Co., Hennessy and Martell Cognac, and the leading Brewers and Bottlers of Wines and Spirits throughout Europe.

PLAIN ORDINARY CAPSULES,

For Small Phials, 2*s.* 6*d.* and upwards per 1,000, according to size, style, design, and quantity.

SPECIAL CONTRACTS FOR CONTINUOUS DEALING.

Manufacturers of Pure English-made Bottling and Package Tinfoil, from 1*s.* per lb. and upwards; **Mixed Foil** (Foreign Quality), from 6d. per lb. (according to gauge); **Patent Barrel Packages and Snuff Canisters, Tea Packages, &c.**

COLLAPSIBLE TUBES AND SPRINKLERS

FOR PERFUMERS AND OTHERS.

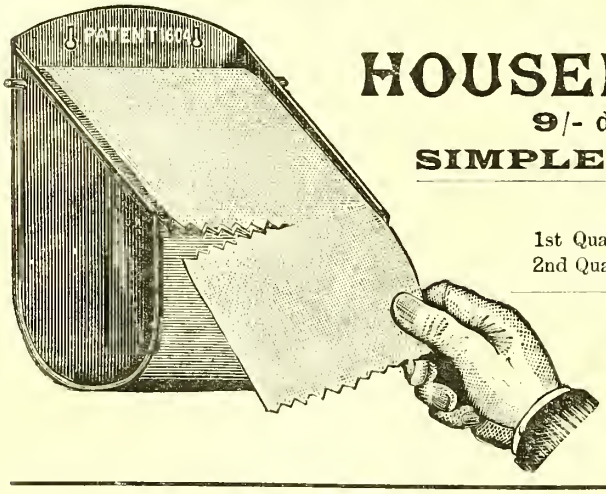
MANUFACTORIES:—LONDON: Chief Office and Factories, Wharf Road, City Road, E.C.; and Holloway and Batavia Mills, Holloway, N.W.—BIRMINGHAM: Moor Green Fields.—PARIS: Office, 65 Rue Verrerie.—BORDEAUX: Office, 3 Quai de Chartrons; Factory, Monrépos, Floirac.

PATENTEES OF HYDRAULIC & MECHANICAL PRESSURE CAPSULING MACHINES,

ESPECIALLY ADAPTED FOR CHEMISTS' COUNTERS.

Largely in use by the Trade, and efficiency guaranteed for all sizes of Bottles, at Royalties from 5*s.* to £2 2*s.* per annum.

HEAD QUARTERS FOR TOILET FIXTURES.



THE NEW

HOUSEHOLD FIXTURE,

9/- dozen, complete with Roll of Paper.

SIMPLE. EASY. EFFICIENT.

REDUCED PRICE FOR REFILLS.

1st Quality ... ... 5/6 per dozen, or 63/ per case of 1 gross.
2nd Quality ... ... 4/6 per dozen, or 100/ per case of 2 gross.

JOHN S. DOWNING

Commercial Street, BIRMINGHAM;

9 ROSE STREET, LONDON, E.C.; 73 VIRGINIA STREET, GLASGOW.

JONES & COMPANY,

METHYLATED SPIRIT MAKERS,

Regent Wharf, Copperfield Road, Mile End, London, E.

FROM RATCLIFF.

SAMPLES AND PRICES UPON APPLICATION.

EVERY CHEMIST should keep in Stock

"LA BRILLANTINE" METALLIC POWDER

(REGISTERED),

Being the best and most effective **Polishing Powder** for Metals, especially **Brass.** It is used by the **Life, Horse,** and **Dragoon Guards,** the **Metropolitan Fire Brigade,** &c. Sold in **1d.** packets, **6d.** and **1s.** boxes. Send Postal Order for **6s.** Sample Order to the Proprietors,

J. F. BAUMGARTNER & CO.

15, CD. (22) NEWMAN STREET, OXFORD STREET, LONDON, W.

Or any Wholesale House. Beware of Imitations.

S.V.R.

PURE GRAIN SPIRIT 56 O.P. ... 18/5

Do. Do. DOUBLE DISTILLED 18/9

Cash with Order. Reductions for Larger Quantities than Two Gallons.

SAMPLES FREE.

STEPHEN SMITH & CO., BOW, LONDON, E.

S.V.R.

SPECIALITY FOR PERFUMERY.

This pure grain spirit, which has been thrice rectified and filtered through charcoal, is being largely used in making high-class Perfumes.

Price, **19/-,** 56 o.p.; **19/6,** 60 o.p. Cash with order.

Reductions for Larger Quantities than Two Gallons.

STEPHEN SMITH & CO., BOW, LONDON, E.

PURE

SPIRITS OF WINE.

60 o.p., 20/3 per gall.; 56 o.p., 19/9 per gall.

1/ per Gall. Discount for Cash with order.

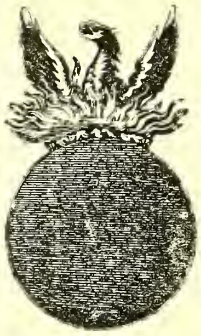
Further allowance for quantity. STEAM STILLS ONLY.

GEORGE PHILLIPS & CO.,

ST. ANDREW'S DISTILLERY, CLERKENWELL RD.

LONDON, E.C.

COLTHURST & HARDING,



BALL DENOTES COLOUR OF PAINT.

BRISTOL—Manufactories: Phœnix Wharf and Temple Gate. Offices: Temple Gate. Telegrams: "Phœnix Bristol."

LONDON—Manufactory: Alpha Works, Millwall, E. City Office: 16 Fish Street Hill, E.C. Telegrams: "Alpha Brand London."

HARD LUSTROUS ENAMEL,

IN ALL THE ART SHADES.

For all kinds of decoration on Wood or Iron. Dry with a surface like Porcelain. Sold in small or large Tins, or in bulk. Prices and shades on application.

WHITE LEAD, ZINC WHITE, PAINTS & COLOURS OF ALL KINDS.

MIXED PAINTS READY FOR USE,

In Tins, 1, 2, 4, 7, and 14 lbs. each.

HIGH-CLASS VARNISHES

Of all kinds, for Coachbuilders, Decorators, &c.

OIL BOILERS, REFINERS & MERCHANTS

Export Orders receive special and prompt attention.

EMPTY PETROLEUM BARRELS.

Empties may be delivered for our account to Atlantic Wharf, Bow Common, or Thames Haven Petroleum Wharf, Thames Haven.

OUR PRICE TO-DAY for fresh emptied Blue and White American Barrels in sound condition, and that have last contained refined American illuminating oil, is 3*s.* 4*d.* delivered at Atlantic or Thames Haven Wharf. For barrels branded with our own brand, "Lustre," 3*s.* 4*d.* For other Russian Brands, 3*s.*

NOTICE.—In the case of Empties sent for our account to Thames Haven Wharf, please advise us when sending, and mark the barrels with "K" in Yellow Paint that we can recognise them.

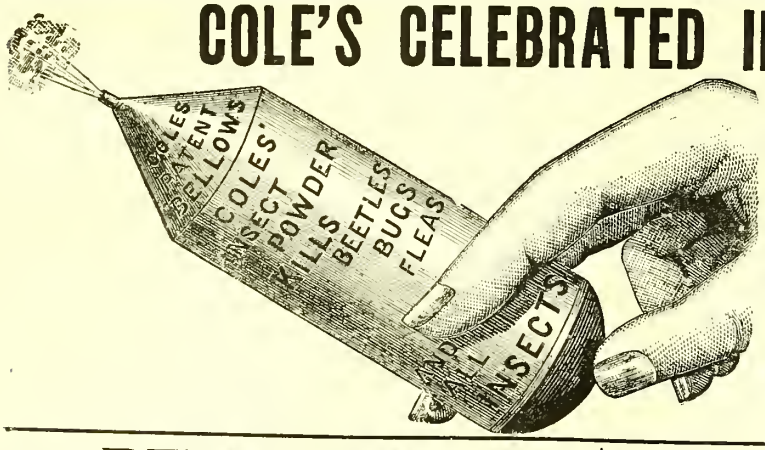
DEDUCTIONS FOR DAMAGE—Broken Chimb or Stave, 6*d.*; broken Head, 6*d.* to 1*s.* 6*d.*, according to extent of damage.

N.B. Special arrangements must be made for all Barrels requiring collection.

THE KEROSENE COMPANY, LIMITED, 26 GREAT ST. HELENS, LONDON, E.C.

IMPORTERS OF RUSSIAN PETROLEUM.

COLE'S CELEBRATED INSECT POWDER



In Cole's Patent Bellows, filled complete, 48/ gross; and in 1d. Boxes with Perforated Tops, 8/ gr., Carriage Paid.

ALSO MANUFACTURER OF

BRUNSWICK BLACK, FURNITURE CREAM, HOUSEHOLD GLUE POTS, METAL POLISHES, MACHINE OIL, KNIFE POLISH, &c., &c.

Special Terms to Wholesale Houses.

WILLIAM COLE, Manufacturer & Patentee,

ILFRACOMBE.

REVOLUTION
IN THE FLY PAPER TRADE.

It must have been observed that for some time the public have become disgusted with the old poisonous fly paper, and have taken somewhat readily to a sticky sort of substitute.

The advertiser has perfected and patented a Fly Paper of this nature, which will certainly be the leading thing in this way in the future. It is a well got-up and effective paper, and is as cleanly to handle as a sheet of note-paper.

In the advertiser's own retail establishment last season the sale of this was simply enormous, as they were freely used by tradespeople (butchers, bakers, grocers, and confectioners), who would not dare to risk the danger from dead poisoned flies about their stock. Owners of horses and cowkeepers were delighted with them, as they spared the animals the torture from this source.

From the nature of the article it cannot very well be stocked by Wholesale Houses for distribution to the Retail Trade, but the Parcel Post will carry them direct from the maker, and Postal Orders will facilitate remittance.

The price is 4/6 per gross (carriage free), but where a large trade is developed more liberal terms will be given.

Send sample order for small lot, and while the season is on you are bound to do a big thing.

ADDRESS—

S. WILSON, CHEMIST, ST. HELENS, LANCS.

"No Gamekeeper or Poultry Breeder should be without them."—*Land and Water.*

WALTON'S
ROUP PILLS AND TONIC PASTE

For the certain Prevention or Cure of Roup, Gapes, and ALL Diseases of Game, Poultry, Pigeons & Cage Birds.

These thoroughly reliable remedies are now so well known and appreciated, gaining a sale and reputation altogether unparalleled in the history of Game, Poultry, and Pigeon Medicines, and promise such an increasing demand as to warrant the Trade generally in keeping them constantly in Stock. A list of *specimens* of Testimonials, including the names of most of the principal breeders in this country, sent free on application to the Proprietor, whose Signature and Trade Mark are engraved upon the Labels of every Box and Tin of the genuine article.

Prices—Roup Pills, 6d., 1/-, 2/-, 4/-, and 10/- per box.
Tonic Paste, 6d., 1/-, 2/6, 5/, and 10/- per tin.

The Trade treated liberally. Of all Wholesale Houses, or supplied direct by

JOHN WALTON, CROYDON, near LONDON.

ESTABLISHED NEARLY 50 YEARS.

DAY & SONS'

28 PRIZE MEDALS.

WORLD-FAMED HORSE AND CATTLE MEDICINES.

THE LARGEST SALE IN THE WORLD.

FOR Colic or Gripes in Horses and Cattle.
FOR Debility and Chills in all Stock.
FOR Scour in Calves and Lambs.
FOR Hoven or Blown Cattle and Sheep.
FOR Shivering Fits in Horses.
FOR Weakness after Lambing or Calving.

PRICE—**10/** PER HALF-DOZEN, OR **19/** PER DOZEN.

FOR Fevers, Yellows, Indigestion, and Dulness.
FOR Red Water, Costiveness, and Mawbound.
FOR Disordered System in Cattle.
FOR Bad Cleansing after Calving.
FOR Preventing Milk Fever and Inflammation.
FOR Purifying and Increasing the Milk.

PRICE—**12/** PER DOZEN PACKETS.

FOR Healing all Wounds in all Animals.
FOR Kicks, Stake Wounds, Broken Knees in Horses.
FOR Cracked Heels and Saddle Galls in Horses.
FOR Sore Teats and Swollen Udders in Cows and Ewes.
FOR Dressing and Anointing in Lambing and Calving.
FOR Every Horse-keeper, Farmer, and Shepherd.

PRICE—**2/6** PER BOTTLE.

FOR Ill Condition, Off Appetite, Disordered System.
FOR Heat-lumps, Itching, and Scurvy Skin.
FOR Hidebound Bad Water, and Blood Ailments.
FOR Coughs, Colds, Sore Throats, and Fevers in Horses.

IN CANISTERS. PRICE—**3/6, 7/, 14/,** AND **21/.**

THE "ORIGINAL" UNIVERSAL MEDICINE CHESTS, £2 4s. and £5. FOR ALL DISORDERS OF HORSES, CATTLE, CALVES, SHEEP, AND LAMBS.

Only Prepared by the Inventors, DAY & SONS, CREWE, CHESHIRE.

May be obtained of Burgoyne, Burbidges & Co.; Sanger & Sons; Evans, Lescher & Webb; Barclay & Sons, &c., London; Evans, Sons & Co., Liverpool, &c. *Exporters are invited to apply for terms; Liberal Discount offered.*

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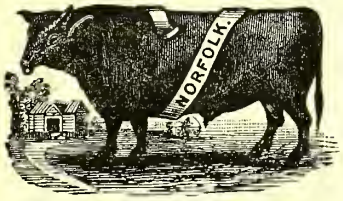

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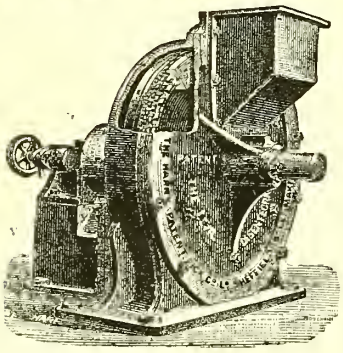

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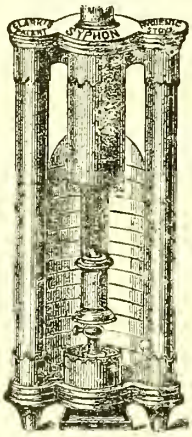

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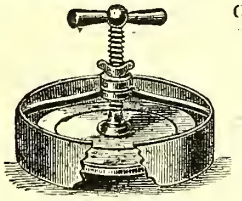

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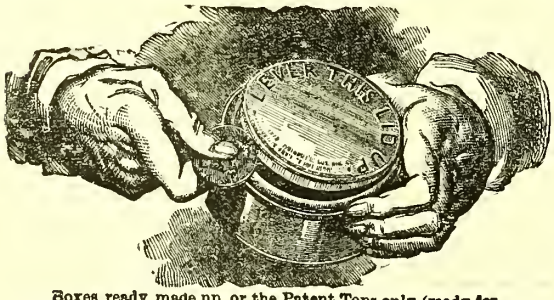

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As we understand from some of our Clients that, from false representations made, an impression prevails that the proceedings in these actions have failed, we beg to inform the public that such is not the fact, and that the proceedings are being carried on as fast as possible, in the Chancery Division of the Court, to restrain the Defendants from selling or making Tins similar to those manufactured by us, and from infringing our Patents. The Defendants, pending the proceedings, have been ordered by the Court to keep an account of all sales made by them. Our Solicitors, Messrs. Clarkson, Greenwell & Co., have had instructions from us to proceed against all persons so offending.

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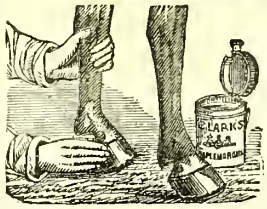

Cures horses' brittle and shelley feet, sand cracks, seedy toes, diseased frogs, fever, quittor, rapidly increasing the growth of the horn, and preventing horses throwing their shoes, making the hoof tough, and prevents all lameness. This preparation is warranted to cure all the above diseases, has been before the public for 30 years, and never known to fail. No owners of horses should be without this invaluable preparation.

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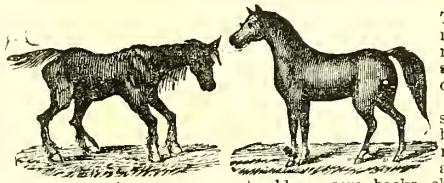
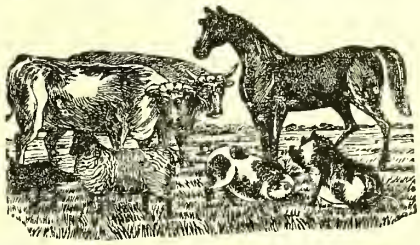
FOR HORSES AND CATTLE.



Takes away all soreness, and gives immediate relief and speedy cure in cases of lameness, bruises sores, sprung sinews, sprains, enlarged joints, overreach, splints, curbs and wind galls, also cuts, broken knees, wrung shoulders, sore backs, chapped heels, sore throats, influenza, and rheumatism.



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Cures Bronchitis, Sore Throats, Rheumatism, Lumbago, Wheezing in the Throat or Chest, Sciatica, Sprains, Bruises, &c.

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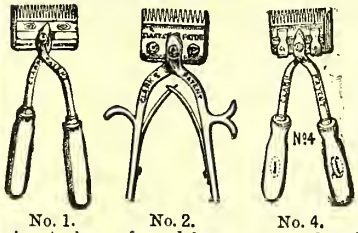

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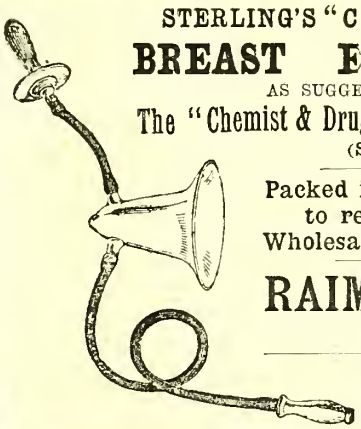

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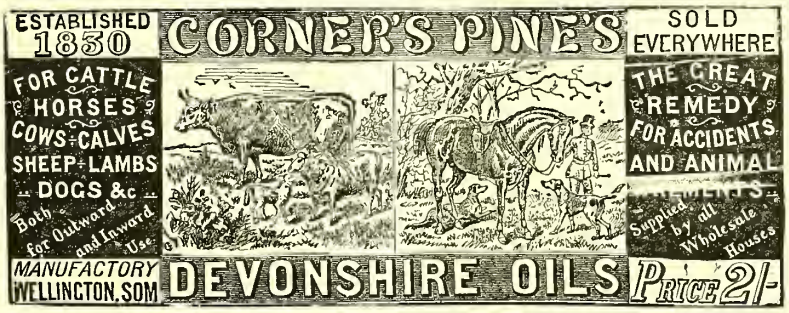

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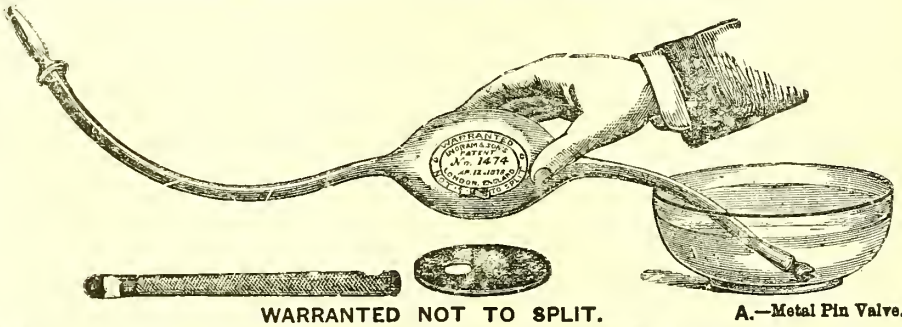

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WARRANTED NOT TO SPLIT. A.—Metal Pin Valve.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is perfectly smooth on the surface, will not become hard or sticky, will not leak, and will not admit air while injecting or refilling. Specially prepared to resist the heat of tropical countries.

The great superiority of **INGRAM'S IMPROVED PATENT SEAMLESS ENEMA** over all others has given rise to VARIOUS IMITATIONS, and it has become imperative that the Patentees should, in order TO PREVENT DECEPTION, explain the PROCESS OF MANUFACTURE OF THEIR ENEMA and the MODE OF MANUFACTURE OF IMITATIONS thereof, as they have UNDENIABLE PROOF that INFERIOR ENEMAS are positively BEING SOLD as their "ADVERTISED" PATENT SEAMLESS ENEMA.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is made by a NEW PATENT PROCESS, viz. : By repeated dipping in a solution of India Rubber until the required substance is attained. This process adds greatly to its STRENGTH and DURABILITY, and, at the same time, dispenses WITH ALL SEAMS, which, as is well known, are weak points in an Enema. This improved mode of manufacture (the result of long study and experience) enables the Patentees to produce a PERFECT ENEMA WITHOUT SEAMS, thus overcoming the great fault to be found in ALL other Enemas, viz. : SPLITTING AND LEAKING, which has always been a source of trouble.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is fitted with IMPROVED VALVES, which prevent the admission of air with the fluid and CAN at any time BE REPAIRED, if necessary.

CAUTION.—Imitations of **INGRAM'S IMPROVED PATENT SEAMLESS ENEMA** are made of several pieces of Sheet India Rubber, which are cemented together and shaped in a mould, THUS PRODUCING RIBS ON THE SURFACE, and ENEMAS SO MANUFACTURED ARE ALWAYS LIABLE TO SPLIT AND LEAK AT THE SEAMS, AND THUS TO BECOME QUITE USELESS.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA may be distinguished from ALL IMITATIONS by its ENTIRE FREEDOM FROM RIBS OF ANY DESCRIPTION on its surface, and by having an IMPROVED METAL PIN VALVE at the suction end A ; and it is acknowledged to be the ONLY PERFECT ENEMA OBTAINABLE.

Patented in England, No. 1474, April 12, 1878; in France, No. 126,909, October 11, 1878; and in America, No. 212,939, March 4, 1879.

To be obtained of all Surgical Instrument Makers, Druggists' Sundriesmen, Chemists and Druggists, in the three following qualities:—

No. 1a. Highly Polished, in Red, Green, Blue, Black, or White.
No. 1b. Unpolished, in Red, Green, Blue, Black, or White.
No. 2. Unpolished, in Drab only.

Favourably noticed in "British Medical Journal," December 13, 1879; in the "Lancet," January 3, 1880; and in "British Medical Journal," September 30, 1882.

CLARKE'S
NEWLY-DESIGNED "PYRAMID" NURSERY LAMP FOOD WARMER,
WITH NEW REGISTERED PANAKIN.

CLARKE'S IMPROVED PANAKINS (REGISTERED), FOR USE WITH CLARKE'S "PYRAMID" NURSERY LAMP.

By this invention any liquid food can be poured out or drunk, without scum or grease passing through the spout, and prevents illing when poured into a Feeding Bottle, so objectionable with all other Panakins.

These Panakins will fit all the old "Pyramid" Nursery Lamps, and can be purchased separately.

N.B.—Ask for CLARKE'S PANAKIN, and see that his name and the registered number (Registered 91,241) is on the anakin, and Trade Mark "PYRAMID."

Clarke's Patent "PYRAMID" NIGHT LIGHTS are the only Lights suitable for these Lamps.

Sold Retail by all respectable Dealers, and Wholesale by the Patentee, S. CLARKE, "PYRAMID" AND "FAIRY" LIGHT ORKS, CRICKLEWOOD, LONDON, N.W. LONDON SHOW ROOM—31 ELY PLACE, HOLBORN CIRCUS, E.C.

The "PYRAMID" FOOD WARMERS, by their peculiar construction—the glass chimney conducting and concentrating heat to bottom of the water vessel—a larger amount of LIGHT and HEAT is obtained than can be in any other lamp of the same class. ithout SMOKE or SMELL.

The "PYRAMID" NIGHT LIGHTS have a patent prepared wick, are made much larger than any other Night Light, and give uble the light; they are, therefore, very suitable for Nursery Lamps, Lighting Passages, Lobbies, &c., and adaptable to many rposes for which the common Night Lights are useless.

Directions for using the Patent "Pyramid" Food Warmer and Night Lights.

The food which is required to be kept hot to be placed in the porcelain panakin, and water in the tin vessel—just sufficient to mit the porcelain panakin being placed therein. Care should be taken in lighting the Night Lights not to injure the top, ich is a protection for the wick, but simply apply a lighted match or taper and allow the material to melt away.

	RETAIL—EACH		RETAIL—EACH
No. 1 Holds Half-pint Food, besides Water	3/6	Clarke's Hot Water Lamps	2/6
„ 2 „ Three-quarters Pint Food „	5/-	„ Pyramid Night Lamps	1/-
„ 3 „ One Pint Food „	6/-	„ „ Lights..per box.	

CAUTION.—The Patentee, in reply to numerous consumers, begs to state that he will warrant his PATENT "PYRAMID" OOD WARMERS to answer the purpose for which they are recommended only when the "Pyramid" Night Lights are burned them; the common night lights will not give sufficient heat. Persons who find a difficulty in obtaining the "Pyramid" Night ghts in good condition are requested to write to the Patentee, S. CLARKE, Patent "Pyramid" Night Light Works, Crickle- od, London, N.W., who will give the address of his nearest agent. The "Pyramid" Night Lights are best when newly made; "Pyramid" Food Warmers are sold by all respectable dealers throughout the Kingdom.

WHOLESALE PRICE OF CLARKE'S NEWLY-DESIGNED "PYRAMID" NURSERY LAMP, WITH REGISTERED PANAKIN			
	No. 1	30/- per dozen	Cash Discount 5 per cent.
	„ 2	33/- „	
	„ 3	36/- „	

B.—Extras.—Porcelain Panakins, No. 1, 6/; Lids, 2/
„ „ „ 2, 9/; „ 3/

N.B.—Extras.—Porcelain Panakins, No. 3, 10/; Lids, 4/
Tin Panakins, No. 1, 6/; No. 2, 10/; No. 3, 12/

Clear Glasses, 4/; Roughed, 6/; Opaline, 6/; Coloured, 6/; Ruby, 6/.

N.B.—NO ALTERATION IN THE PRICE OF THE OLD PATTERN "PYRAMID" FOOD WARMER.

CLARKE'S PATENT "PYRAMID" LAMPS & LIGHTS.
THE BURGLAR'S HORROR

PATENT "PYRAMID" NIGHT LAMPS, 1/- retail, 6/ per dozen.

PATENT "PYRAMID" NIGHT LIGHTS, 7/6 doz. boxes, less 5 per cent.

The "PYRAMID" NIGHT LAMPS render the burning a Night Light perfectly safe, entirely prevent FLICKERING so objectionable in all Night Lights not burned in a lamp), are clean, portable, and render a Night Light useful for many purposes where they otherwise would not be.

ATENT "PYRAMID" NIGHT LIGHT WORKS, CRICKLEWOOD, LONDON, N.W.

Show Room: 31 ELY PLACE, HOLBORN, LONDON, E.C., where all New Designs in "Fairy" Lamps can be seen.

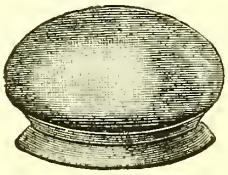
Profitable Lines in Druggist Sundries

CHEAP AND GOOD
MENTHOL CONES.

207/s.—Draughtsman shape, polished willow boxes, usual 1/ size ..... 21/ gross net.
202/s.—Bullet shape, ditto, ditto ..... 14/ „
Usual 9*d.* size.
206/s.—Cone shape, ditto, ditto..... 18/ „
Extra large Cone.

These prices for not less than ½ gross, one pattern or assorted.

No. 202/s.


No. 207/s.

No. 206/s.

FULLER'S EARTH.

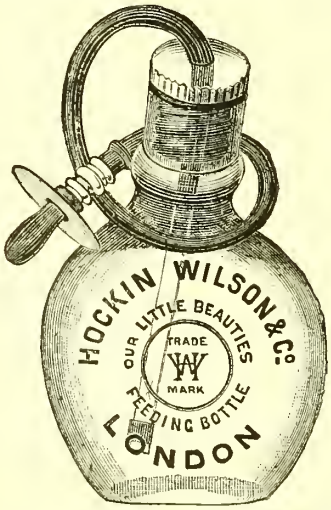
In elegant decorated tin boxes, which may be used as puff boxes when empty.

No. 626.—1 dozen in cartoon, 3/6 doz.

May also be had filled with Violet Powder, No. 626v, 3/9 doz.

LITTLE BEAUTIES FEEDER.

THE BEST 1/- FEEDER MADE.



Each in box, with spare tube and brushes, and equal to most 1/6 feeders. 5/6 per doz. Send for sample dozen.

SMELLING BOTTLES.

No. 310.

No. 310.—Watch Bottles, filled with sponge, and neatly labelled in black and red.
Boxed in 1 doz. ..... 3/6 doz.
By gross ..... 3/3 „

No. 622.

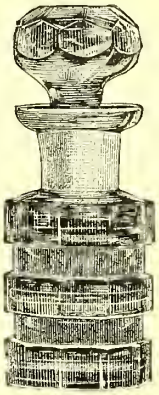
No. 622.—New Pattern Capped Bottle, as block, filled.
Boxed in 1 doz. ..... 5/ doz.
By gross ..... 4/9 „

THE BEST 6d. PERFUME EVER OFFERED.

A spendidly Cut Bottle.

Jockey Club, White Rose, Millefleur.

Assorted in box.

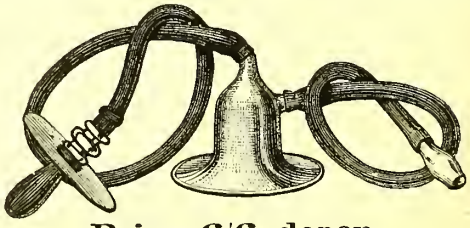


Neatly boxed in ½ doz.

No. 621. — 3/6 per doz.

NEW DOUBLE-ACTION NIPPLE SHIELD,

As noticed in THE CHEMIST AND DRUGGIST, June 23, 1888.



Price 6/6 dozen.

Fitted with our New Registered Mouth-piece to enable tubes to be used separately, and to prevent the child sucking air.

SEND FOR SAMPLE DOZENS AND YOU WILL BE WELL SATISFIED.

HOCKIN, WILSON & CO.

13, 14, 15, & 16 New Inn Yard, TOTTENHAM COURT ROAD, LONDON, W.

Please give Numbers when ordering, to prevent mistakes. Special Prices to Large Buyers.

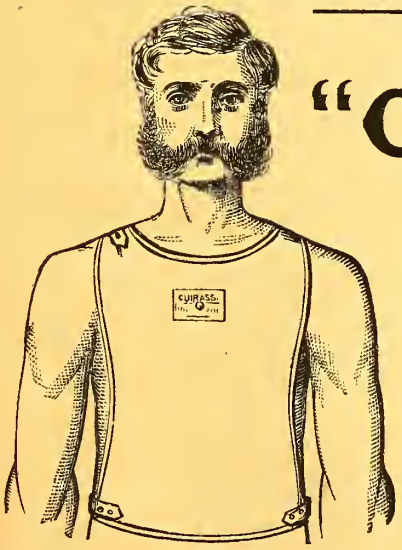
CHEST PROTECTORS.

PRIZE MEDAL,

SYDNEY, 1879.

The Felt we use is manufactured specially for us from the finest quality Lamb's Wool.

WE DON'T SEND OUT SECOND QUALITY.

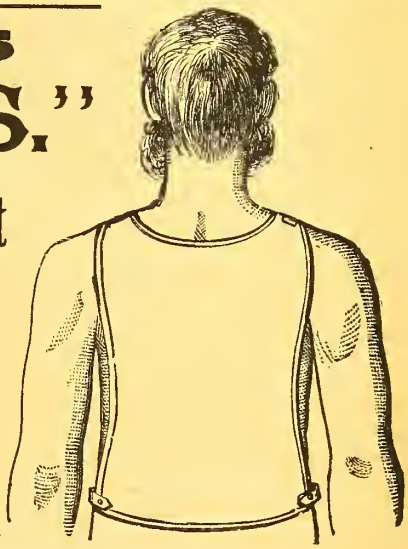


LYNCH'S "CUIRASS."

Scarlet or White Felt

PER DOZEN

No. 1	24/-
„ 2	30/-
„ 3	36/-
„ 4	43/-
„ 5	54/-
„ 6	66/-



SCARLET or WHITE FELT, per dozen.

	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
DREADNOUGHT (Double) ...	16/6	22/-	27/-	33/-	44/-	50/-
GENTLEMEN'S Single	10/-	11/6	13/6	16/-	21/-	27/-
LADIES' Single	7/-	9/-	11/-	13/6	19/-	22/-

CHAMOIS LEATHER, lined with Flannel, per dozen.

GENTLEMEN'S, Single	10/6	12/6	14/6	17/-	23/-	—
LADIES' Single	7/6	9/6	11/6	14/-	20/-	—

WAISTCOAT PATTERN.

CHAMOIS & FLANNEL	23/-	31/6	40/-	49/6	61/-	71/
FELT, Scarlet or White	20/-	28/6	36/-	44/-	54/6	67/

CUIRASS JACKETS,

With half-sleeves buttoning down front, made of Perforated Chamois Leather and Porous Scarlet Flannel.

	No. 1	No. 2	No. 3	No. 4
Size	32 by 18 in.	34 by 18½ in.	37 by 20½ in.	39 by 21 in.
Each	6/6	7/6	8/6	9/6

Less **10** per cent. for Cash Monthly; **5** per cent. Half-yearly account.
Special Quotation for £10 worth and upwards.

SEE ILLUSTRATIONS TO PART I. OF CATALOGUE.

LYNCH & CO., ALDERSGATE ST., LONDON, E.C.; & MELBOURNE.

THE BEST NATURAL APERIENT.

Persistent attempts are made by interested parties to deceive the public by offering Natural Mineral Aperient Waters with marks, names, and designations very similar to those which are used by the

APOLLINARIS COMPANY, LIMITED,

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NATURAL MINERAL APERIENT WATERS

IMPORTED BY THEM.

Under these circumstances the **APOLLINARIS COMPANY (LIMITED)** feel compelled to caution the public that the **HUNGARIAN BITTER WATER** sold by the **COMPANY** always bears the name of the **APOLLINARIS COMPANY (LIMITED)** on the Label, and a **RED DIAMOND,** which is their **TRADE MARK** of Selection.

DEMAND THE DIAMOND MARK,

and insist upon receiving the **HUNGARIAN APERIENT WATER** of the **APOLLINARIS COMPANY (LIMITED).**

Cadbury's Cocoa IS SOLUBLE and ABSOLUTELY PURE. ABSOLUTELY **PURE.**

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SPECIAL PRICES ON APPLICATION.

Printed by SPOTTISWOODE & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—*Sept.* 29, 1888.

A copy of this Supplement is inserted in every number issued of "THE CHEMIST AND DRUGGIST."

THE CHEMIST & DRUGGIST
SUPPLEMENT.

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Businesses for Disposal.
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SATURDAY, SEPTEMBER 29, 1888.

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EXCHANGE COLUMN ADVERTISEMENTS will appear on page 10 (bottom folio), and must be received not later than THURSDAY AT NOON, to appear in the issue of the Saturday following.

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7.—**£800.—KENT.**—In a capital business town; Family Retail and Dispensing Business; corner shop; main thoroughfare; returns nearly £800 yearly; profits above the average; good house; rent low; price £800, includes good lease.

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9.—**£1,700.—SOUTH COAST.**—Fashionable town; very old-established Dispensing Business; established over 20 years; winter season just commencing; returns nearly £1,700; particulars in confidence on application, card or reference.

10.—**£700.—KENT.**—Large town; General Retail and Dispensing; very old-established business; returns over £700; very commodious shop and good-sized house with nice garden; rent £70 on lease; price £625.

11.—**£350.—LIVERPOOL.**—Small Prescribing and Retail; established many years; easily worked; returns about £350 yearly, *very profitable*; well-fitted shop; rent low; price about £250.

12.—**£600—SUFFOLK.**—In a large town a very good-class Business; entirely managed by an assistant; returns at the rate of £600 yearly; comfortable house with garden; price £25; stock and fixtures at valuation.

13.—**£600.—HANTS.**—Large town, close to the sea; good-class Retail and Dispensing Business; established 16 years; returns at the rate of £600; pretty neighbourhood; handsome corner shop; good stock; price £500, or offer; part can remain.

14.—**CAPE COLONY.**—Established Business; vendor leaving for England; *net profit* £100 per month; about £1,100 or £1,200 required; full particulars on application; capital opportunity for one or two good men.

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3.	STAFFORDSHIRE	„ 1,200	„ 60	„ 1,150
4.	KENT	„ 1,000	„ 60	„ 600
5.	LIVERPOOL	„ 850	„ 50	„ 600
6.	KENT COAST ...	„ 660	„ 52	„ 400
7.	ESSEX	„ 600	„ 22	„ 400
8.	LINCOLNSHIRE ..	„ 500	„ 45	„ 250
9.	ISLE OF MAN ...	„ 500	„ 50	„ 350
10.	ESSEX	„ 450	„ 50	„ 350
11.	LONDON, N.	„ 400	„ 45	„ 187
12.	NOTTINGHAM ...	„ 400	„ 25	„ 130
13.	ROTHERHITHE ..	„ 385	„ 48	„ 250
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Some of above, newly established, increasing rapidly.

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3s. 6d. for fifty words; 6d. for every 10 words beyond.

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DISPENSARY or Surgery to let, Homœopathic or otherwise; excellent position; let as Homœopathic for 3 years, tenant left, business outgrown the premises; nicely-fitted, lamp, and no premium; possession at once; main road. Apply at 1 Norland Terrace, Holland Park, Notting Hill, London.

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RETAIL and Dispensing Business, in country town, either Midlands, South, or South-West of England, and returning from £700 to £1,200. Send full particulars, in confidence, to Mr. H. Major, Chemist, 428 New Cross Road, S.E.

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£1,250.—A freehold house (9 rooms), and elegantly fitted, well stocked Pharmacy for disposal; large garden; fashionable town; furniture at valuation; no goodwill. F. S. A., Commerce House, Wye, Kent.

£200 will purchase the goodwill and complete fixtures throughout of an old-established Retail and Prescribing Business, in full working order; stock at valuation; returns £600, full prices; rent £30; splendid opportunity for a young beginner. For further particulars apply to Messrs. Ayrton & Saunders, 149 Duke Street, Liverpool.

CHESHIRE.—Genuine Dispensing and Light Retail; established over 20 years; special reasons for disposal; price £700; good house with private entrance; pleasant neighbourhood, near to Liverpool; this is an exceptional opportunity. For particulars address, "Dispensing," care of Messrs. Evans, Sons & Co., Hanover Street, Liverpool.

CHEMIST'S; established 40 years; returns about £300, could be doubled; no opposition; crowded neighbourhood; rent £40, side entrance, part let off; price £200, part could remain, or reasonable offer. Particulars to Mr. Hensby, Chemist, 89 Union Road, Newington Causeway, S.E.

LANCASHIRE.—Chemist, Druggist, Drysaltery Business, on main highway; population about 140,000; present owners 28 years; saleable stock, fixtures, all vessels, utensils, cisterns, list of book customers; no goodwill charged; surrounded by mills, workshops; under £300 will buy. Write, Wm. Swift, Valuer, Rochdale.

BIRKENHEAD.—Old-established Middle-class Retail; no heavy; returns £750; well fitted and stocked; capable of much extension; must sell, having taken other business; £250 or any reasonable offer; part may remain; good house; new lease; reduced rental, £60. Mr. Baker, Stockbridge Terrace, S.W.

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IN consequence of ill-health, good Prescribing Business, in thickly populated part of Liverpool; commanding position, with good house, private entrance; first-class fittings throughout; price £300; returns £600, may be doubled by an energetic man; excellent opening for dentist. Oldersea, care of Wyleys, Coventry.

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WANTED, a Junior Assistant; outdoors; duties would chiefly be packing and putting up stock. Apply, giving full particulars, to D. P. Roberts, Chemist, 131 North End, Croydon.

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SENIOR, qualified (indoors), for good-class country business; also Junior or Improver accustomed to Surgeon's dispensing. Apply, with full particulars, stating experience, age, height, salary required, and giving references, to J. G. Candy, Wantage, Berks.

JUNIOR, immediately, indoors; about 21; must be a quick and accurate Dispenser, and accustomed to a good country business. Apply, either personally or with carte, stating age, height, experience, salary, &c., to John Rea, Chemist, Newmarket.

TO CHEMISTS' ASSISTANTS.—Wanted at once, a Qualified Dispenser (outdoors); no Sunday duty. Apply, by letter, stating age, experience, and salary required, to H. S. B., 136 Queen Victoria Street, E.C.

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AS Junior; October 19; 4½ years' experience; height 5 ft. 7 in.; good reference. R. C., 18 Market Place, Ripon.

LOCUM-TENENS; qualified; experienced; good prescriber; tall; teetotaler. Hall Roberts, Holbein House, Folkestone.

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ASSISTANT; qualified; (24); best references; experienced; disengaged. "Minor," Post Office, Sevenoaks.

JUNIOR; aged 21; 5 years' experience; quick and careful Dispenser. "Hyd.," Warrior, 12 Woodview Terrace, Manningham, Bradford.

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ASSISTANT; aged 27; indoors; comfortable home; salary no object; immediately. Pike, 36 Lower Kennington Lane, London.

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